UNIV. OF
TORONTO

9894

AMERICAN MATHEMATICAL SOCIETY.

Organized as the New York Mathematical Society, November, 1888.
Reorganized as the American Mathematical Society, July, 1894.

List of Officers & members

(ANNUAL REGISTER.)

100963
9/3/10.

JANUARY, 1905.

NEW YORK:
PUBLISHED BY THE SOCIETY.
501 WEST 116TH STREET,
1905.

PRESS OF
THE NEW ERA PRINTING COMPANY
LANCASTER, PA.

DIRECTORY.

Offices of the Secretary, Librarian, and Committee of Publication,
501 West 116th Street, New York, N. Y.

Office of the Treasurer,
8 East 49th Street, New York, N. Y.

Secretary of the Chicago Section,
THOMAS F. HOLGATE, *617 Hamline Street, Evanston, Ill.*

Secretary of the San Francisco Section,
G. A. MILLER, *Stanford University, Cal.*

Assistant Secretary of the Society,
WILLIAM FINDLAY, *501 West 116th Street, New York, N. Y.*

Changes of address should be immediately communicated to the Secretary for entry in the mailing lists of the Society.

Membership dues should be remitted to Dr. W. S. DENNETT, Treasurer, 8 East 49th Street, New York, N. Y., by draft or money order, drawn payable to the AMERICAN MATHEMATICAL SOCIETY.

The following dates have been fixed for the meeting of the Society during the year 1905 :

Saturday, February 25, Saturday, October 28.
Saturday, April 29,

The Annual Meeting of the Society for the election of officers will be held in the last week of December.

Meetings of the Chicago Section will be held in April and during the Christmas holidays. The San Francisco Section will meet on February 25 and September 30.

Papers intended for presentation at any meeting or sectional meeting of the Society should be sent to the Secretary or Secretary of the Section in advance of the meeting for submission to the Programme Committee, and should be accompanied by an abstract, suitable for publication in the BULLETIN, and a statement of the time required for presentation. Blanks for the entry of abstracts will be furnished by the Secretaries, on application.

PUBLICATIONS.

Transactions

of the

American Mathematical Society.

EDITED BY

ELIAKIM HASTINGS MOORE,

ERNEST WILLIAM BROWN, THOMAS SCOTT FISKE,

with the coöperation of

EDWARD BURR VAN VLECK, HENRY SEELY WHITE,
C. L. BOUTON, L. E. DICKSON, J. I. HUTCHINSON,
EDWARD KASNER, E. B. WILSON.

Published quarterly by the Society with the support of

YALE UNIVERSITY, NORTHWESTERN UNIVERSITY,
COLUMBIA UNIVERSITY, CORNELL UNIVERSITY,
WESLEYAN UNIVERSITY, THE UNIVERSITY OF CALIFORNIA,
HAVERFORD COLLEGE, LELAND STANFORD JR. UNIVERSITY,
THE UNIVERSITY OF MISSOURI, THE UNIVERSITY OF CHICAGO.

The TRANSACTIONS is devoted primarily to research in pure and applied mathematics, and is the official organ of the Society for the publication of important original papers read before it. The first number appeared in January, 1900.

Publication Agents, The Macmillan Company, 66 Fifth Avenue, New York, N. Y. Subscription price $5.00 per annum; to members of the Society $3.75 per annum.

PUBLICATIONS.

Bulletin

of the

American Mathematical Society.

CONTINUATION OF THE BULLETIN OF THE NEW YORK MATHEMATICAL SOCIETY.

A HISTORICAL AND CRITICAL REVIEW OF MATHEMATICAL SCIENCE.

EDITED BY

F. N. COLE, ALEXANDER ZIWET, DAVID EUGENE SMITH,
FRANK MORLEY, VIRGIL SNYDER,
H. S. WHITE.

The BULLETIN contains a large number of critical reviews of mathematical treatises and text-books, a complete monthly list of new mathematical publications, notes on current events in the mathematical world, addresses before mathematical bodies, reports on progress in various branches of the science, reports of the meetings of the Society and of other mathematical societies and congresses, and many short original articles.

Published for the Society by The Macmillan Company, 66 Fifth Avenue, New York, N. Y. Issued monthly, except August and September. Sent free to members of the Society. Subscription price to non-members $5.00. Members of the Society are entitled to receive back volumes of the present Series to complete their sets at $4.00 per volume, so far as the supply permits. A member connected with an educational institution may order the current volume for its library at $2.50.

Books for review and manuscripts intended for publication in the BULLETIN should be sent to one of the members of the Committee of Publication. Subscriptions to the BULLETIN and orders for back numbers should be addressed to The Macmillan Company.

PUBLICATIONS.

Published Papers. Vol. I.

MATHEMATICAL PAPERS READ AT THE INTERNATIONAL MATHEMATICAL CONGRESS HELD IN CONNECTION WITH THE WORLD'S COLUMBIAN EXPOSITION, CHICAGO, 1893.

EDITED BY THE COMMITTEE OF THE CONGRESS:

E. HASTINGS MOORE, OSKAR BOLZA, HEINRICH MASCHKE, HENRY S. WHITE.

Containing papers by Bolza, Burkhart, Capelli, Cole, Dyck, Echols, Eddy, Fricke, Halsted, Heffter, Hermite, Hilbert, Hurwitz, Klein, Krause, Lemoine, Lerch, Macfarlane, Martin, Maschke, Meyer, Minkowski, Moore, Netto, Noether, D'Ocagne, Paladini, de Perott, Pervouchine, Pincherle, Pringsheim, Sawin, Schlegel, Schoenflies, Stringham, Study, Taber, Weber, Weyr.

Published for the Society by The Macmillan Company, 1896. 8vo, pp. 411. Price, $4.00 ; to members of the Society, $3.00.

OFFICERS PAST AND PRESENT.

PRESIDENT.

J. H. Van Amringe,	1888–1890,	R. S. Woodward,	1898–1900,
Emory McClintock,	1890–1894,	Eliakim H. Moore,	1900–1902.
G. W. Hill,	1894–1896,	Thomas S. Fiske,	1902–1904,
Simon Newcomb,	1896–1898,	W. F. Osgood,	1904– .

VICE-PRESIDENTS.

Emory McClintock,	1889–1890,	Henry S. White,	1900–1901,
J. K. Rees,	1890–1891,	Maxime Bôcher,	1901–1902,
Henry B. Fine,	1891–1893,	Frank Morley,	1901–1902,
G. W. Hill,	1893–1894,	W. F. Osgood,	1902–1903,
Hubert A. Newton,	1894–1896,	Alexander Ziwet,	1902–1903,
R. S. Woodward,	1896–1898,	Oskar Bolza,	1903–1904,
Eliakim H. Moore,	1897–1900,	J. M. Van Vleck,	1903–1904,
Thomas S. Fiske,	1898–1901,	E. W. Brown,	1904 ,

James Pierpont, 1904– .

SECRETARY.

Thomas S. Fiske,	1888–1895,	F. N. Cole,	1895–

TREASURER.

Harold Jacoby,	1891–1894,	Harold Jacoby,	1896–1899,
R. S. Woodward,	1894–1896,	W. S. Dennett,	1899– .

LIBRARIAN.

D. A. Murray,	1892–1893,	Edward L. Stabler,	1894–1895,
Gustave Legras,	1893–1894,	Pomeroy Ladue,	1895–1901,

D. E. Smith, 1901– .

COMMITTEE OF PUBLICATION.

Thomas S. Fiske,	1891–1899,	Frank Morley,	1894–1898,
Harold Jacoby,	1891–1893.	F. N. Cole,	1898– ,
Alexander Ziwet,	1893– ,	Frank Morley,	1899–1902,

D. E. Smith, 1902– .

MEMBERS OF THE COUNCIL.

1905.

Officers.

W. F. Osgood, *President.*
E. W. Brown, James Pierpont, } *Vice-Presidents.*
F. N. Cole, *Secretary.*
W. S. Dennett, *Treasurer.*
D. E. Smith, *Librarian.*
F. N. Cole, Alexander Ziwet, D. E. Smith. } *Committee of Publication.*

Ex-Officio Members.

J. H. Van Amringe, Simon Newcomb, Emory McClintock, R. S. Woodward, G. W. Hill, E. H. Moore, T. S. Fiske,

Other Members.

To Serve until December, 1905.

James Harkness, Heinrich Maschke, Irving Stringham H. W. Tyler.

To Serve until December, 1906.

Maxime Bôcher, Florian Cajori, M. B. Porter J. H. Tanner.

To Serve until December, 1907.

E. R. Hedrick, T. F. Holgate, E. O. Lovett, L. A. Wait.

MEMBERS OF THE SOCIETY.

JANUARY 1, 1905.

Life members are designated by *.

Date of Admission.

1892, Nov. ABBE, CLEVELAND, B.Sc., M.A., Ph.D., LL.D.; Member of the National Academy of Sciences; Member of the Astronomische Gesellschaft; F.R.A.S.; Member of the Deutsche Mathematiker-Vereinigung; Editor of the *Monthly Weather Review;* Professor of Meteorology, U. S. Weather Bureau; Professor of Meteorology, George Washington University, Washington, D. C.; Lecturer in Meteorology, Johns Hopkins University, Baltimore, Md. *U. S. Weather Bureau*, Washington, D. C.

1891, Nov. ALEY, ROBERT JUDSON, M.A., Ph.D. (Pennsylvania); Member of the London Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Member of the Edinburgh Mathematical Society; Professor of Mathematics, University of Indiana, Bloomington, Ind. *203 Forest Place.*

1901, Dec. ALLARDICE, ROBERT EDGAR, M.A.; Fellow of the Royal Society of Edinburgh; Member of the Edinburgh Mathematical Society; Professor of Mathematics, Stanford University, Cal.

1897, Dec. ALLEN, JOSEPH, M.A., Instructor in Mathematics, College of the City of New York. *162 East 79th Street*, New York, N. Y.

1903, Oct. AMES, LEWIS DARWIN, M.A., Ph.D. (Harvard); Instructor in Mathematics, University of Missouri, Columbia, Mo. *1501 Windsor Street.*

1901, Dec. ANDREWS, GRACE, B.Sc., Ph.D. (Columbia). *"The Brevoort," 47 Brevoort Place*, Brooklyn, N. Y.

1903, Oct. ARCHIBALD, RAYMOND CLARE, M.A., Ph.D. (Strassburg); Professor of Mathematics, Mount Allison Ladies' College, Sackville, New Brunswick, Canada. *P. O. Box 122.*

1901, Oct. ASHTON, CHARLES HAMILTON, M.A.; Assistant Professor of Mathematics, University of Kansas, Lawrence, Kansas. *1240 Rhode Island Street.*

Date of Admission.

1903, Feb. BAILEY, FREDERICK HAROLD, M.A.; Associate Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass.

1891, June BAKER, ALFRED, M.A.; Fellow of the Royal Society of Canada; Member of the Société Mathématique de France; Professor of Mathematics, University of Toronto, Toronto, Canada.

1891, Feb. BAKER, ARTHUR LATHAM, C.E., Ph.D.; Professor of Mathematics, Manual Training High School, Brooklyn, N. Y.

1904, Oct. BAKER, RICHARD PHILIP, B.Sc, *5519 Monroe Avenue*, Chicago, Ill.

1894, Oct. BARNUM, CHARLOTTE CYNTHIA, B.A., Ph.D. (Yale); U. S. Coast and Geodetic Survey, Washington, D. C.

1903, Aug. BARTLETT, DANA PRESCOTT, B.Sc.; Member of the Deutsche Mathematiker-Vereinigung; Associate Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass.

1892, Apr. BARTON, SAMUEL MARX, B.A., Ph.D.; Professor of Mathematics, University of the South, Sewanee, Tenn.

1891, Apr. BASS, EDGAR WALES, Graduate of the U. S. Military Academy; Colonel U. S. Army, retired. *77 Park Avenue*, New York, N. Y.

1903, Oct. BATES, WILLIAM HUNT, M.A.; Instructor in Mathematics, Purdue University, Lafayette, Ind. *110 South Ninth Street.*

1900, Dec. BAUER, GEORGE NEANDER, M.Sc., Ph.D. (Columbia); Instructor in Mathematics, University of Minnesota, Minneapolis, Minn.

1903, Feb. BELL, ARTHUR TIMOTHY, M.A.; Principal of Schools, Reynolds, Ill.

1891, Apr. BEMAN, WOOSTER WOODRUFF, M.A.; Member of the London Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, University of Michigan, Ann Arbor, Mich. *813 East Kingsley Street.*

1901, Oct. BENEDICT, HARRY YANDELL, M.A., Ph.D. (Harvard); Associate Professor of Mathematics and Astronomy, University of Texas, Austin, Texas.

1900, Dec. BENTON, JOHN ROBERT, B.A., B.Sc., Ph.D. (Göttingen). Bureau of Standards, Washington, D. C.

Date of Admission.

1897, Feb. *Berry, Arthur, M.A.; Member of the London Mathematical Society; Fellow of the Cambridge Philosophical Society; F.R.A.S.; Fellow and Assistant Tutor in Mathematics, King's College, Cambridge, England.

1902, Apr. Biklé, Charles Earl, M.A.; Adjunct Professor of Mathematics, Teachers College, Columbia University, New York, N. Y.

1891, Dec. Blake, Edwin Mortimer, M.E., Ph.D. (Columbia); Member of the Société Mathématique de France; Professor of Mathematics and Mechanics, University of Arizona, Tucson, Ariz.

1900, Dec. Blichfeldt, Hans Frederik, M.A., Ph.D. (Leipsic); Assistant Professor of Mathematics, Stanford University, Cal.

1900, Dec. *Bliss, Gilbert Ames, B.A., M.Sc., Ph.D. (Chicago); Member of the Deutsche Mathematiker-Vereinigung; Assistant Professor of Mathematics, University of Missouri, Columbia, Mo.

1892, Apr. Bôcher, Maxime, B.A., Ph.D. (Göttingen); Member of the Deutsche Mathematiker-Vereinigung; Editor of the *Annals of Mathematics;* Professor of Mathematics, Harvard University, Cambridge, Mass. *48 Buckingham Street.*

1899, Oct. Bogarte, Martin Eugene, M.A.; Professor of Mathematics, Northern Indiana Normal School, Valparaiso, Ind. *College Avenue and Locust Street.*

1891, Nov. Bolza, Oskar, Ph.D. (Göttingen); Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, University of Chicago, Chicago, Ill.

1898, Dec. *Bouton, Charles Leonard, M.Sc., M.A., Ph.D. (Leipsic); Member of the Deutsche Mathematiker-Vereinigung; Associate Editor of the *Transactions of the American Mathematical Society;* Assistant Professor of Mathematics, Harvard University, Cambridge, Mass. *503 Craigie Hall.*

1900, Dec. Bowden, Joseph, B.A., Ph.D. (Yale); Professor of Mathematics, Adelphi College, Brooklyn, N. Y. *403 Washington Avenue.*

1891, June Bowser, Edward Albert, C.E., LL.D.; Professor of Mathematics, Rutgers College, New Brunswick, N. J.

1903, Feb. Brackett, Frank Parkhurst, M.A.; Professor of Mathematics, Pomona College, Claremont, Cal.

Date of Admission.

1901, Dec. BRASEFIELD, STANLEY EUGENE, C.E., M.Sc.; Instructor in Mathematics and Graphics, Lafayette College, Easton, Pa. *327 Center Street.*

1903, Feb. BRECKENRIDGE, WILLIAM EDWIN, M.A.; Teacher of Mathematics, Stuyvesant High School, New York, N. Y. *225 East 23rd Street.*

1902, Sept. BROMWICH, THOMAS JOHN I'ANSON, M.A.; Member of the London Mathematical Society; Member of the Edinburgh Mathematical Society; Fellow of the Cambridge Philosophical Society; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, Queen's College, Galway; Examiner in Mathematics, Royal University of Ireland; *Queen's College,* Galway, Ireland.

1901, Dec. BROOKE, WILLIAM ELLSWORTH, B.C.E., M.A.; Instructor in Mathematics, University of Minnesota, Minneapolis, Minn.

1891, June BROOKS, JOHN MILTON, M.A.; Birmingham Building and Improvement Company, Birmingham, Ala. *117½ North 21st Street.*

1893, Dec. BROWN, EDWARD LEROY, M.A.; Principal of the North Side High School, Denver, Col. *2555 West 34th Avenue.*

1892, Feb. *BROWN, ERNEST WILLIAM, M.A., Sc.D. (Cambridge); F.R.S.; Member of the London Mathematical Society; Fellow of the Cambridge Philosophical Society; F.R.A.S.; Member of the American Philosophical Society; Editor of the *Transactions of the American Mathematical Society;* Professor of Mathematics, Haverford College, Haverford, Pa.

1900, Oct. BROWN, GEORGE LINCOLN, M.Sc., Ph.D. (Chicago); Professor of Mathematics and Astronomy, South Dakota Agricultural College, Brookings, S. D.

1902, Sept. *BROWN, J. STANFORD, B.Ph., M.A.; Vice-President of the New York Realty and Trust Company. *10 Belmont Avenue,* Yonkers, N. Y.

1904, Apr. BROWNE, JOHN J., B.A.; Instructor in Mathematics, Colorado School of Mines, Golden, Colo.

1903, Oct. BUCKINGHAM, HARRIET DEAN, M.A.; Teacher of Mathematics, Gilman School, Cambridge, Mass. *P. O. Box 147,* Lexington, Mass.

Date of Admission.		
1899,	Aug.	*Bullard, Warren Gardner, B.A., Ph.D. (Clark); Member of the Deutsche Mathematiker-Vereinigung; Associate Professor of Mathematics, Syracuse University, Syracuse, N. Y. *100 Waverly Avenue.*
1891,	June	Bullis, Abram Rogers, B.Sc., B.C.E. Macedon, Wayne County, N. Y.
1903,	Feb.	Burrell, Ellen Louisa, B.A.; Professor of Pure Mathematics and Head of the Department, Wellesley College, Wellesley, Mass.
1904,	Oct.	Bussey, William Henry, M.A., Ph.D. (Chicago); Instructor in Mathematics, Academy of Northwestern University, Evanston, Ill. *714 Sheridan Road.*
1891,	Apr.	Byerly, William Elwood, M.A., Ph.D. (Harvard); Editor of the *Annals of Mathematics;* Professor of Mathematics, Harvard University, Cambridge, Mass. *39 Hammond Street.*
1891,	June	Cain, William, C.E., M.A.; Professor of Mathematics, University of North Carolina, Chapel Hill, N. C.
1899,	Apr.	Cajori, Florian, M.Sc., Ph.D.; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, Colorado College, Colorado Springs, Colo. *1119 Wood Avenue.*
1900,	Dec.	Campbell, Donald Francis, Ph.D. (Harvard); Professor of Mathematics, Armour Institute of Technology, Chicago, Ill.
1897,	Oct.	Capron, Paul, M.A.; Teacher of Mathematics, Dummer Academy, South Byfield, Mass.
1896,	Apr.	Chace, Arnold Buffum, M.A., D.Sc. (Brown). Valley Falls, R. I.
1891,	May	Chandler, Charles Henry, M.A.; Professor of Mathematics, Ripon College, Ripon, Wis.
1895,	Nov.	Chessin, Alexander S., M.A., C.E., Ph.D.; Professor of Mathematics, Washington University, St. Louis, Mo.
1895,	Nov.	Chittenden, J. Brace, B.Sc., M.A., Ph.D. (Königsberg); Professor of Mathematics, Brooklyn Polytechnic Institute, Brooklyn, N. Y.
1891,	Apr.	Clark, John Emory, M.A.; Emeritus Professor of Mathematics, Yale University, New Haven, Conn. *34 South Park Terrace,* Longmeadow, Mass.
1900,	Dec.	Clarke, John Eastman, B.A., Ph.D. (Boston); Principal of the Gilbert School, Winsted, Conn.

Date of Admission.		
1896,	Sept.	CLUTZ, FRANK HOLLINGER, B.A., Ph.D. (Johns Hopkins); Civil Engineer, Nelson and Buchanan Company, Chambersburg, Pa. *Fifth Avenue.*
1902,	Dec.	COBLE, ARTHUR B., M.A., Ph.D. (Johns Hopkins); Instructor in Mathematics, Johns Hopkins University, Baltimore, Md.
1893,	Feb.	COHEN, ABRAHAM, B.A., Ph.D. (Johns Hopkins); Co-editor of the *American Journal of Mathematics;* Associate in Mathematics, Johns Hopkins University, Baltimore, Md.
1891,	Apr.	COLE, FRANK NELSON, B.A., Ph.D. (Harvard); Editor of the *Bulletin of the American Mathematical Society;* Professor of Mathematics, Columbia University, New York, N. Y.
1899,	Dec.	COLLINS, JOSEPH VICTOR, B.Ph., Ph.D.; Teacher of Mathematics, State Normal School, Stevens Point, Wis. *217 Division Street.*
1903,	Aug.	COMSTOCK, CLARENCE ELMER, M.A.; Assistant Professor of Mathematics and Head of the Department, Bradley Polytechnic Institute, Peoria, Ill.
1898,	Feb.	COMSTOCK, ELTING HOUGHTALING, B.Sc.; Superintendent of Schools, Houghton, Mich. *P. O. Box 230.*
1892,	Oct.	CONANT, LEVI LEONARD, M.A., Ph.D.; Editor of the *Journal of the Worcester Polytechnic Institute;* Professor of Mathematics, Worcester Polytechnic Institute, Worcester, Mass.
1904,	Sept.	CONVERSE, HENRY A., B.A., Ph.D. (Johns Hopkins); Instructor in Mathematics, Baltimore Polytechnic Institute, Baltimore, Md. *2017 North Calvert Street.*
1900,	June	COOLIDGE, JULIAN LOWELL, B.A., B.Sc., Ph.D. (Bonn); Instructor in Mathematics, Harvard University, Cambridge, Mass. *63 Sparks Street.*
1902,	Dec.	CORNISH, WILLIAM AARON, B.A.; Instructor in Mathematics, State Normal School, Cortland, N. Y. *2 Stewart Place.*
1903,	Feb.	COWLEY, ELIZABETH BUCHANAN, M.A.; Instructor in Mathematics, Vassar College, Poughkeepsie, N. Y.
1900,	Dec.	CRATHORNE, ARTHUR R., B.A. *Gaussstrasse 4, Göttingen, Germany.*

Date of Admission.

1891, Apr. CRAWLEY, EDWIN SCHOFIELD, B.Sc., Ph.D.; Member of the Deutsche Mathematiker-Vereinigung; Thomas A. Scott Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa.

1903, Oct. CUMMINGS, LOUISE DUFFIELD, M.A.; Instructor in Mathematics, Vassar College, Poughkeepsie, N. Y.

1891, Dec. CUNNINGHAM, SUSAN J., Professor of Mathematics and Astronomy, Swarthmore College, Swarthmore, Pa.

1900, Dec. CURJEL, ARTHUR WORTHINGTON, M.A.; F.I.A.; Member of the London Mathematical Society. Birkdale, Southport, Lancashire, England. *18 Welbeck Road.*

1904, Oct. CURTIS, ARTHUR MILLS, B.Sc.; Instructor in Mathematics, State Normal and Training School, Oneonta, N. Y.

1902, Feb. CURTISS, DAVID RAYMOND, M.A., Ph.D. (Harvard); Member of the Société Mathématique de France; Instructor in Mathematics, Sheffield Scientific School, Yale University, New Haven, Conn. *220 Lawrence Street.*

1900, Oct. DAVIS, CHARLES HENRY, C.E. *25 Broad Street,* New York, N. Y.

1891, Apr. DAVIS, ELLERY WILLIAMS, B.Sc., Ph.D. (Johns Hopkins); Professor of Mathematics and Dean of the College of Literature, Science and the Arts, University of Nebraska, Lincoln, Neb.

1903, Aug. DAVIS, HARVEY NATHANIEL, M.A. *27 Perkins Hall,* Harvard University, Cambridge, Mass.

1891, Apr. DAVIS, NATHANIEL FRENCH, M.A., LL.D.; Professor of Pure Mathematics, Brown University, Providence, R. I. *159 Brown Street.*

1904, Oct. DEAN, GEORGE REINALD, B.Sc., C.E.; Professor of Mathematics, School of Mines, University of Missouri, Rolla, Mo.

1903, Feb. DE COU, EDGAR EZEKIEL, M.Sc.; Assistant Professor of Mathematics, University of Oregon, Eugene, Ore. *719 Mill Street.*

1900, Dec. DEFOE, LUTHER MARION, Member of the London Mathematical Society; Professor of Mechanics, University of Missouri, Columbia, Mo.

1903, Dec. DEIMEL, RICHARD FRANCIS, M.A.; Assistant in Mechanics, Columbia University, New York, N. Y. *209 West 97th Street.*

Date of Admission.		
1891,	May	DeLong, Ira Mitchell, M.A.; Professor of Mathematics, University of Colorado, Boulder, Colo. *1341 Broadway.*
1895,	Jan.	DeLury, Alfred Tennyson, M.A.; Associate Professor of Mathematics, University of Toronto, Toronto, Canada.
1892,	Jan.	Dennett, William Sawyer, B.A., M.D. *8 East 49th Street,* New York, N. Y.
1896,	Nov.	Dickson, Leonard Eugene, B.Sc., M.A., Ph.D. (Chicago); Member of the London Mathematical Society; Associate Editor of the *Transactions of the American Mathematical Society;* Editor of the *American Mathematical Monthly;* Research Assistant to the Carnegie Institution; Assistant Professor of Mathematics, University of Chicago, Chicago, Ill.
1904,	Apr.	Dimick, Chester Edward, B.A., Instructor in Mathematics, University of Pennsylvania, Philadelphia, Pa. *Box 26, College Hall.*
1904,	Sept.	Dodd, Edward Lewis, M.A., Ph.D. (Yale); Instructor in Mathematics, State University of Iowa, Iowa City, Ia. *P. O. Box 1555.*
1897,	Apr.	Dowling, Linnæus Wayland, Ph.D. (Clark); Assistant Professor of Mathematics, University of Wisconsin, Madison, Wis. *University Heights.*
1901,	Feb.	Downey, John F., C.E., M.Sc., M.A.; Professor of Mathematics and Dean of the College of Science, Literature and the Arts, University of Minnesota, Minneapolis, Minn.
1902,	Apr.	Duke, Frank Williamson, B.A.; Professor of Mathematics, Hollins Institute, Hollins, Va.
1902,	Oct.	Dunkel, Otto, M.E., M.A., Ph.D. (Harvard); *Judenstrasse 40, Göttingen, Germany.*
1891,	Apr.	Durell, Fletcher, B.A., Ph.D.; Master in Mathematics, Lawrenceville School, Lawrenceville, N. J.
1891,	Apr.	Durfee, William Pitt, B.A., Ph.D. (Johns Hopkins); Professor of Mathematics and Dean of the Faculty, Hobart College, Geneva, N. Y. *639 Main Street.*
1904,	Feb.	Duval, Edmund Pendleton Randolph, B.Sc., M.A.; Master of Mathematics, County School for Boys, Baltimore, Md.
1900,	Dec.	Easton, Burton Scott, B.Sc., Ph.D. (Pennsylvania); Instructor in Mathematics, University of Pennsylvania, Philadelphia, Pa. *224 South 43d Street.*

Date of Admission.		
1891,	Apr.	ECHOLS, WILLIAM HOLDING, B.Sc.; Professor of Mathematics, University of Virginia, Charlottesville, Va.
1891,	Apr.	EDDY, HENRY TURNER, C.E., M.A., Ph.D., LL.D.; Professor of Engineering and Mechanics, University of Minnesota, Minneapolis, Minn. *916 Sixth Street, S. E.*
1896,	Dec.	EDMONDSON, THOMAS WILLIAM, B.A., Ph.D. (Clark); Associate Professor of Physics, New York University, New York, N. Y. *University Heights.*
1902,	Sept.	EDWARDS, GEORGE CUNNINGHAM, B.Ph.; Associate Professor of Mathematics, University of California, Berkeley, Cal.
1894,	June	EIMBECK, WILLIAM; Assistant in the U. S. Coast and Geodetic Survey, Washington, D. C.
1900,	Dec.	EISENHART, LUTHER PFAHLER, B.A., Ph.D. (Johns Hopkins); Instructor in Mathematics, Princeton University, Princeton, N. J. *63 Little Hall.*
1898,	Feb.	*ELLIOTT, EDWIN BAILEY, M.A.; F.R.S.; Member of the London Mathematical Society; F.R.A.S.; Waynflete Professor of Pure Mathematics and Fellow of Magdalen College, Oxford, England. *4 Bardwell Road.*
1896,	Nov.	EMCH, ARNOLD, M.Sc., Ph.D. (Kansas); Professor of Graphics and Mathematics, University of Colorado, Boulder, Col.
1898,	Apr.	ENGBERG, CARL CHRISTIAN, B.Sc., M.A., Ph.D. (Nebraska); Assistant Professor of Mathematics, University of Nebraska, Lincoln, Neb.
1892,	Mar.	ENGLER, EDMUND ARTHUR, M.A., Ph.D., LL.D.; President of the Worcester Polytechnic Institute, Worcester, Mass. *11 Boynton Street.*
1903,	Oct.	ENGLISH, HARRY, B.A., M.L.; Director of Mathematics, Washington High Schools, Washington, D. C. *2907 P Street, N. W.*
1904,	Sept.	EPSTEEN, SAUL, B.Sc., Ph.D. (Zürich); Member of the Deutsche Mathematiker-Vereinigung; Editor of the *American Mathematical Monthly;* Associate in Mathematics, University of Chicago, Chicago, Ill.
1898,	Oct.	*ESCOTT, EDWARD BRIND, M.Sc.; Instructor in Mathematics, University of Michigan, Ann Arbor, Mich. *718 Monroe Street.*
1901,	Dec.	ESTY, THOMAS CUSHING, M.A.; Professor of Mathematics, University of Rochester, Rochester, N. Y.
1891,	May	ESTY, WILLIAM COLE, LL.D.; Professor of Mathematics and Astronomy, Amherst College, Amherst, Mass.

Date of Admission.		
1899,	Feb.	FAUGHT, JOHN BROOKIE, M.A., Ph.D.; Professor of Mathematics, Northern State Normal School, Marquette, Mich. *1312 Presque Isle Avenue.*
1903,	Apr.	FERRIN, WILLIAM NELSON, M.A., LL.D.; Vermont Professor of Mathematics and President, Pacific University, Forest Grove, Ore.
1901,	Feb.	FERRY, FREDERICK CARLOS, M.A., Ph.D. (Clark); Professor of Mathematics and Dean, Williams College, Williamstown, Mass.
1900,	June	FIELD, PETER, M.Sc., Ph.D. (Cornell); Instructor in Mathematics, University of Michigan, Ann Arbor, Mich.
1891,	May	FIELDS, JOHN CHARLES, Ph.D. (Johns Hopkins); Member of the Société Mathématique de France; Special Lecturer in Mathematics, University of Toronto, Toronto, Canada. *62 Sussex Avenue.*
1901,	Oct.	FINDLAY, WILLIAM, M.A., Ph.D. (Chicago); Tutor in Mathematics, Columbia University, New York, N. Y.
1891,	May	FINE, HENRY BURCHARD, M.A., Ph.D. (Leipsic); Professor of Mathematics, Princeton University, Princeton, N. J.
1891,	June	FINKEL, BENJAMIN FRANKLIN, M.A., M.Sc.; Member of the London Mathematical Society; Editor of the *American Mathematical Monthly;* Professor of Mathematics and Physics, Drury College, Springfield, Mo., Special Fellow in Mathematics, University of Pennsylvania, Philadelphia, Pa. *204 St. Mark's Square,* Philadelphia, Pa.
1899,	Feb.	FISHBURNE, EDWARD BELL, JR., B.Sc., M.A.; President of the Hoge Memorial Military Academy, Blackstone, Va.
1891,	Oct.	FISHER, GEORGE EGBERT, M.A., Ph.D.; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Assistant Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa.
1895,	Jan.	FISHER, IRVING, B.A., Ph.D. (Yale); Professor of Political Economy, Yale University, New Haven, Conn. *460 Prospect Street.*
1888,	Nov.	FISKE, THOMAS SCOTT, M.A., Ph.D. (Columbia); EX-PRESIDENT; Member of the London Mathematical Society; Editor of the *Transactions of the American Mathematical Society;* Professor of Mathematics, Columbia University, New York, N. Y.

Date of Admission.

1897, Feb. FITCH, ANNIE LOUISE MACKINNON (MRS. EDWARD), M.Sc., Ph.D. Clinton, N. Y.

1901, Oct. FITE, WILLIAM BENJAMIN, Ph.D. (Cornell); Instructor in Mathematics, Cornell University, Ithaca, N. Y. *127 Eddy Street.*

1904, Oct. FLEET, ROBERT RYLAND, M.A., Ph.D. (Heidelberg); Professor of Mathematics, William Jewell College, Liberty, Mo.

1894, Oct. FLOWERS, ROBERT LEE, Graduate of the U. S. Naval Academy; Professor of Mathematics, Trinity College, Durham, N. C.

1900, Feb. FOCKE, ANNE BOSWORTH, B.Sc., Ph.D. (Göttingen). *106 Cutler Street*, Cleveland, O.

1903, Dec. FORBES, CHARLES SAVAGE, M.A., Ph.D. (Columbia); Assistant Statistician, Casualty Company of America, New York, N. Y. *133 East 30th Street.*

1900, Apr. FORD, ROBERT DALE, M.Sc.; Professor of Mathematics, St. Lawrence University, Canton, N. Y.

1899, Aug. *FORD, WALTER B., M.A.; Member of the Société Mathématique de France; Instructor in Mathematics, Williams College, Williamstown, Mass.

1899, Dec. FORSYTH, ANDREW RUSSELL, Sc.D. (Cambridge, Dublin Victoria, Oxford), LL.D. (Glasgow); Math. D. (Christiania); F.R.S.; Hon. F.R.S.E.; Corresponding Associate of the Reale Istituto Lombardo; President of the London Mathematical Society; Honorary Member of the Manchester Literary and Philosophical Society; Member of Cambridge Philosophical Society; F.R.A.S; Sadlerian Professor of Pure Mathematics and Fellow of Trinity College, Cambridge University, Cambridge, England.

1893, Dec. FRANKLAND, FREDERICK WILLIAM, F.I.A.; Member of the Actuarial Society of America; Associate Actuary of the New York Life Insurance Company. *Foxton, New Zealand.*

1892, Dec. FRANKLIN, FABIAN, B.Ph., Ph.D. (Johns Hopkins); Member of the London Mathematical Society. *205 West Madison Street*, Baltimore, Md.

1903, Feb. FRAZER, FRANK DEAN, B.Sc., M.A.; Instructor in Mathematics, University of Oregon, Eugene, Ore.

1895, Nov. FRIZELL, ARTHUR BOWES, M.A.; Instructor in Mathematics, Harvard University, Cambridge, Mass. *11 Sumner Street.*

Date of Admission.		
1892,	Oct.	GABLE, GEORGE DANIEL, M.A., Ph.D.; Hunt Professor of Mathematics and Secretary of the Faculty, Parsons College, Fairfield, Iowa.
1899,	Oct.	GALE, ARTHUR SULLIVAN, B.A., Ph.D. (Yale); Member of the Deutsche Mathematiker-Vereinigung; Instructor in Mathematics, Yale University, New Haven, Conn. *281 Willow Street.*
1899,	Aug.	GATES, FANNY COOK, M.L.; Associate Professor of Physics, The Woman's College, Baltimore, Md.
1904,	Dec.	GAVETT, GEORGE IRVING, B.Sc.; Instructor in Applied Mathematics, Stanford University, Cal.
1903,	Dec.	GECKELER, OTTO THEODORE, B.A.; Junior Professor of Mathematics, Georgia School of Technology, Atlanta, Ga.
1894,	Feb.	GENTRY, RUTH, Ph.B., Ph.D. (Bryn Mawr); Associate Principal and Head Teacher of Mathematics, Miss Gleim's School for Girls, Pittsburgh, Pa. *805 South Negley Avenue.*
1897,	Dec.	GERMANN, GEORGE B., B.A., Ph.D. (Columbia); Principal of Public School No. 130, *Ocean Parkway and Fort Hamilton Avenue,* Brooklyn, N. Y.
1901,	Feb.	*GERRANS, HENRY TRESAWNA, M.A.; Member of the London Mathematical Society; Member of the Edinburgh Mathematical Society; Member of the Société Mathématique de France; Member of the Circolo Matematico di Palermo; Fellow and Tutor of Worcester College, Oxford, England.
1903,	Oct.	GIBSON, GEORGE ALEXANDER, M.A., F.R.S.E.; Honorary Member of the Edinburgh Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics in the Glasgow and West of Scotland Technical College, Glasgow, Scotland. 8 *Sandyford Place, W.*
1904,	Apr.	GILLESPIE, WILLIAM, B.A., Ph.D. (Chicago); Instructor in Mathematics, Princeton University, Princeton, N. J. *10 Nassau Street.*
1892,	June	GLAISHER, JAMES WHITBREAD LEE, M.A., Sc.D.; F.R.S.; F.R.A.S.; Editor of the *Messenger of Mathematics* and of the *Quarterly Journal of Pure and Applied Mathematics;* Fellow of Trinity College, Cambridge, England.

Date of Admission.

1891, May | GLASHAN, JOHN CADENHEAD, LL.D.; Fellow of the Royal Society of Canada; Inspector of Public Schools, School Inspector's Office, Ottawa, Canada.

1896, Nov. | GLOVER, JAMES WATERMAN, M.A., Ph.D. (Harvard); Member of the Deutscher Verein für Versicherungs-Wissenschaft; Assistant Professor of Mathematics, University of Michigan, Ann Arbor, Mich. *1312 Geddes Avenue.*

1904, Feb. | GOODENOUGH, GEORGE ALFRED, M.E.; Assistant Professor of Mechanical Engineering, University of Illinois, Urbana, Ill. *909 West Green Street.*

1897, Oct. | GORE, JOHN KINSEY, M.A.; Member of the Actuarial Society of America; Actuary of the Prudential Insurance Company, Newark, N. J.

1902, Feb. GOULD, ALICE BACHE, B.A. *405 Marlborough Street,* Boston, Mass.

1903, Oct. | GOULD, MARY FRANCIS, B.A.; Teacher of Mathematics, Dedham High School, Dedham, Mass.

1904, Dec. GRABER, MYRON EARLE, M.A.; Instructor in Mathematics and Physics, Heidelberg University, Tiffin O. *40 Circular Street.*

1903, Aug. GRAHAM, WILLIAM JOSEPH, B.A.; Member of the Actuarial Society of America; Actuarial Department, Metropolitan Life Insurance Company, New York, N. Y.

1904, Oct. GRANT, ELMER DANIEL, M.A.; Assistant Professor of Mathematics and Physics, Michigan College of Mines, Houghton, Mich.

1897, May GRANVILLE, WILLIAM ANTHONY, B.Ph., Ph.D. (Yale); Instructor in Mathematics, Yale University, New Haven, Conn. *118 Howe Street.*

1904, Apr. GRAY, CLIFFORD, E.E., M.A.; Tutor in Mathematics, Columbia University, New York, N. Y. *206 West 119th Street.*

1891, June GREEN, RUFUS LOT, B.Sc., M.A.; Professor of Mathematics, Stanford University, Cal.

1897, Oct. *GREENHILL, ALFRED GEORGE, M.A.; F.R.S.; Member of the London Mathematical Society; Professor of Mathematics, Ordnance College, Woolwich, England.

Date of Admission.		
1900,	June	GREENSTREET, WILLIAM JOHN, M.A.; Member of the London Mathematical Society; Member of the Edinburgh Mathematical Society; F.R.A.S.; Editor of the *Mathematical Gazette;* Headmaster of the Marling School, Stroud, England.
1901,	Oct.	GREENWOOD, GEORGE WILLIAM, M.A.; Professor of Mathematics and Astronomy, McKendree College, Lebanon, Ill.
1893,	Dec.	GRIFFITHS, IDA, B.A. *132 West 80th Street,* New York, N. Y.
1899,	Oct.	*GROAT, BENJAMIN FELAND, B.Sc.; Assistant Professor of Mathematics and Mechanics, School of Mines, University of Minnesota, Minneapolis, Minn.
1894,	June	*GUMMERE, HENRY VOLKMAR, B.Sc., M.A.; Professor of Mathematics, Drexel Institute, Philadelphia, Pa. *229 South 44th Street.*
1902,	Feb.	GUNDERSEN, CARL, M.A., Ph.D. (Columbia); Instructor in Mathematics, Michigan Agricultural College, Mich.
1894,	Aug.	HAGEN, JOHN GEORGE, S.J.; Member of the Deutsche Mathematiker-Vereinigung; Director of the Georgetown College Observatory, Washington, D. C. *Georgetown University.*
1902,	Dec.	HALL, ARTHUR GRAHAM, B.Sc., Ph.D. (Leipsic); Assistant Professor of Mathematics, University of Illinois, Urbana, Ill. *911 California Avenue.*
1891,	Nov.	HALL, ASAPH, JR., B.A., Ph.D. (Yale); Member of the Astronomische Gesellschaft, Professor of Astronomy and Director of the Observatory, University of Michigan, Ann Arbor, Mich.
1894,	Oct.	HALLETT, GEORGE HERVEY, M.A., Ph.D.; Assistant Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa. *College Hall.*
1891,	May	HALSTED, GEORGE BRUCE, M.A., Ph.D. (Johns Hopkins); Member of the Société Mathématique de France; Member of the Circolo Matematico di Palermo; Member of the Deutsche Mathematiker-Vereinigung; Member of the London Mathematical Society; Co-editor of *Le Matematiche;* Professor of Mathematics, Kenyon College, Gambier, Ohio.

Date of Admission.

1899, Aug. HAMMERSLOUGH, CARRIE, M.A. *1215 Madison Avenue*, New York, N. Y.

1901, Oct. HANAWALT, FRANCIS WAYLAND, M.A.; Professor of Mathematics and Astronomy, Albion College, Albion, Mich.

1902, Dec. HANCOCK, EDWARD LEE, M.Sc.; Instructor in Applied Mechanics, Purdue University, Lafayette, Ind. *1003 State Street.*

1895, Apr. HANCOCK, HARRIS, B.A., Ph.D. (Berlin), D.Sc. (Paris); Member of the London Mathematical Society; Member of the Société Mathématique de France; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, University of Cincinnati, Cincinnati, Ohio. *Auburn Hotel, Mount Auburn.*

1900, Dec. HANNA, ULYSSES S., M.A.; Assistant Professor of Mathematics, Indiana University, Bloomington, Ind. *828 Atwater Avenue.*

1894, Feb. *HARDCASTLE, FRANCES, Member of the London Mathematical Society. *25 Boundary Road*, St. John's Wood, London, N. W., England.

1902, Apr. HARDY, JAMES GRAHAM, M.A., Ph.D.; Assistant Professor of Mathematics, Williams College, Williamstown, Mass.

1891, May *HARKNESS, JAMES, M.A.; Professor of Mathematics, McGill University, Montreal, Canada.

1891, Apr. HART, JAMES NORRIS, C.E., M.Sc.; Professor of Mathematics and Astronomy, University of Maine, Orono, Me.

1904, Feb. HARVEY, HENRY CLAY, M.Sc.; Professor of Mathematics, State Normal School, Kirksville, Mo. *315 South Stanford Street.*

1899, Dec. HASKELL, MELLEN WOODMAN, M.A., Ph.D. (Göttingen); Member of the Deutsche Mathematiker-Vereinigung; Associate Professor of Mathematics, University of California, Berkeley, Cal. *P. O. Box 3.*

1903, Feb. HASKINS, CHARLES NELSON, B.Sc., Ph.D. (Harvard); Instructor in Mathematics, Cornell University, Ithaca, N. Y. *120 Oak Avenue.*

1891, May HATHAWAY, ARTHUR STAFFORD, B.Sc., Professor of Mathematics, Rose Polytechnic Institute, Terre Haute, Ind. *2206 North Tenth Street.*

Date of Admission.		
1901,	Feb.	HAVILAND, EDWIN, JR., B.Sc., M.A.; Professor of Mathematics, Clarkson School of Technology, Potsdam, N. Y. *P. O. Box 253.*
1898,	Aug.	HAWKES, HERBERT EDWIN, B.A., Ph.D. (Yale); Member of the Deutsche Mathematiker-Vereinigung; Assistant Professor of Mathematics, Yale University, New Haven, Conn. *20 Carmel Street.*
1894,	Aug.	HAY, GUSTAVUS, B.A., M.D. *383 Marlborough Street,* Boston, Mass.
1901,	Aug.	HEDRICK, EARLE RAYMOND, M.A., Ph.D. (Göttingen); Member of the Deutsche Mathematiker-Vereinigung; Professor and Head of the Department of Mathematics, University of Missouri, Columbia, Mo. *302 South Ninth Street.*
1900,	Dec.	HEWES, LAURENCE ILSLEY, B.Sc., Ph.D. (Yale); Professor of Mathematics, Rhode Island College of Agriculture and Mechanic Arts, Kingston, R. I.
1904,	Oct.	HIGDON, JOHN E., B.A.; Teacher of Mathematics, Shortridge High School, Indianapolis, Ind. *2541 North Illinois Street.*
1892,	Dec.	HILL, GEORGE WILLIAM, Ph.D., Sc.D., LL.D.; EX-PRESIDENT; Corresponding Member of the Paris Academy of Sciences; Member of the National Academy of Sciences; Foreign Member of the Royal Society of London; Foreign Associate of the Royal Astronomical Society. West Nyack, N. Y.
1898,	Dec.	HIMOWICH, ADOLPH A., M.Sc., M.D. *130 Henry Street,* New York, N. Y.
1894,	Mar.	HITCHCOCK, FANNY R. M., Ph.D. Philadelphia, Pa. *4038 Walnut Street.*
1902,	Apr.	HODGKINS, HOWARD LINCOLN, M.A., Ph.D. (Columbian); Professor of Mathematics, George Washington University, Washington, D. C.
1895,	Feb.	HOLGATE, THOMAS FRANKLIN, M.A., Ph.D. (Clark); Professor of Applied Mathematics and Acting President of the University, Northwestern University, Evanston, Ill. *617 Hamline Street.*
1903,	Dec.	HOOK, EDWARD ALFRED, M.Sc., M.A.; Tutor in Mathematics, Columbia University, New York, N. Y.
1902,	Dec.	HOSKINS, LEANDER MILLER, C.E., M.Sc.; Professor of Applied Mathematics, Stanford University, Palo Alto, Cal.

Date of Admission.		
1891,	May	HOWE, CHARLES SUMNER, M.Sc., Ph.D.; F.R.A.S.; Member of the Astronomical and Astrophysical Society of America; President of the Case School of Applied Science, Cleveland, Ohio.
1891,	May	HOWE, HERBERT ALONZO, M.A., Sc.D.; Member of the Astronomische Gesellschaft; Director of the Chamberlin Observatory of the University of Denver, University Park, Col.
1891,	May	HULBURT, LORRAIN SHERMAN, B.A., Ph.D. (Johns Hopkins); Collegiate Professor of Mathematics, Johns Hopkins University, Baltimore, Md.
1904,	Feb.	HUN, JOHN GALE, Ph.D. (Johns Hopkins); Instructor in Mathematics, Princeton University, Princeton, N. J.
1901,	Oct.	HUNTINGTON, EDWARD VERMILYE, M.A., Ph.D. (Strassburg); Member of the Deutsche Mathematiker-Vereinigung; Editor of the *Annals of Mathematics;* Instructor in Mathematics, Harvard University, Cambridge, Mass. *35 Fairfax Hall.*
1891,	Apr.	HUSSEY, WILLIAM J., B.Sc.; Foreign Associate of the Royal Astronomical Society; Astronomer in the Lick Observatory, Mt. Hamilton, Cal.
1896,	Nov.	HUTCHINSON, JOHN IRWIN, B.A., Ph.D. (Chicago); Associate Editor of the *Transactions of the American Mathematical Society;* Assistant Professor of Mathematics, Cornell University, Ithaca, N. Y. *Cornell Heights.*
1891,	May	HYDE, EDWARD WYLLYS, C.E.; Actuary of the Columbia Life Insurance Company, Cincinnati, O. *814 Lincoln Avenue, Station D.*
1904,	Apr.	INGOLD, LOUIS, M.A.; Assistant in Mathematics, University of Missouri, Columbia, Mo. *1107 Paquin Street.*
1891,	June	IRELAND, OSCAR BROWN, M.A.; Member of the Actuarial Society of America; Actuary of the Massachusetts Mutual Life Insurance Company, Springfield, Mass. *P. O. Box 1608.*
1901,	Dec.	JACKSON, LAMBERT LINCOLN, M.A.; Professor of Mathematics, State Normal School, Brockport, N. Y.
1892,	Jan.	JACOBUS, DAVID S., M.E.; Professor of Experimental Engineering, Stevens Institute of Technology, Hoboken, N. J.

Date of Admission.		
1888,	Nov.	JACOBY, HAROLD, Ph.D. (Columbia); Member of the Astronomische Gesellschaft; F.R.A.S.; Adjunct Professor of Astronomy, Columbia University, New York, N. Y. *333 West 76th Street.*
1893,	Feb.	JAMES, JOHN NELSON, B.A.; Professor of Mathematics, Epworth University, Oklahoma, O. T.
1897,	Apr.	JOFFE, S. A., M.Sc.; Mutual Life Insurance Company of New York. *32 Nassau Street,* New York, N. Y.
1891,	Mar.	JOHNSON, WILLIAM WOOLSEY, M.A.; Member of the London Mathematical Society; Professor of Mathematics, U. S. Naval Academy, Annapolis, Md.
1904.	Oct.	KARPINSKI, LOUIS CHARLES, B.A., Ph.D. (Strassburg); Member of the Deutsche Mathematiker-Vereinigung; Instructor in Mathematics, University of Michigan, Ann Arbor, Mich. *1104 Prospect Street.*
1899,	Oct.	*KASNER, EDWARD, M.A., Ph.D. (Columbia); Associate Editor of the *Transactions of the American Mathematical Society;* Tutor in Mathematics, Columbia University, New York, N. Y. *121 East 114th Street.*
1903.	Oct.	KELLOGG, OLIVER DIMON, M.A., Ph.D. (Göttingen); Instructor in Mathematics, Princeton University, Princeton, N. J. *151 Little Hall.*
1891,	Dec.	KENNELLY, A. E., D.Sc.; F.R.A.S. Harvard University, Cambridge, Mass.
1900,	Dec.	KENYON, ALFRED MONROE, M.A.; Professor of Mathematics, Purdue University, Lafayette, Ind. *103 Waldron Street,* West Lafayette.
1897,	Aug.	KEPPEL, HERBERT G., B.A., Ph.D. (Clark); Member of the Amsterdam Mathematical Society; Instructor in Mathematics, Northwestern University, Evanston, Ill. *616 Foster Street.*
1892,	Oct.	KERR, WILLIAM JASPER, D.Sc.; President of the Agricultural College of Utah, Logan, Utah.
1897,	Aug.	KEYSER, CASSIUS JACKSON, B.Sc., M.A., Ph.D. (Columbia); Adrain Professor of Mathematics, Columbia University, New York, N. Y.
1904.	Apr.	KNEPPER, MYRTLE, B.L., M.A.; Assistant in Mathematics, State Normal School, Cape Girardeau, Mo.
1891,	Dec.	KNISELY, ALEXANDER, B.Sc. Columbia City, Ind.
1903.	Apr.	KOCH, ERNEST HERMAN, JR., B.Sc.; *125 Willoughby Street,* Brooklyn, N. Y.

Date of Admission.

1901, Oct. KUHN, HARRY WALDO, Ph.D. (Cornell); Assistant Professor of Mathematics, Ohio State University, Columbus, Ohio. *1462 Neil Avenue.*

1894, Apr. *LADUE, POMEROY, B.Sc.; Professor of Mathematics, New York University, New York, N. Y. *University Heights.*

1893, Dec. LAMBERT, PRESTON ALBERT, M.A.; Assistant Professor of Mathematics, Lehigh University, South Bethlehem, Pa. *215 South Center Street.*

1897, Jan. LANDIS, WILLIAM WEIDMAN, M.A.; Professor of Mathematics, Dickinson College, Carlisle, Pa.

1898, Apr. LANZA, GAETANO, B.Sc., C. and M.E.; Professor of Theoretical and Applied Mechanics, in charge of the Department of Mechanical Engineering, Massachusetts Institute of Technology, Boston, Mass.

1897, May LAVES, KURT, M.A., Ph.D. (Berlin); Member of the Astronomische Gesellschaft; Assistant Professor of Astronomy, University of Chicago, Chicago, Ill.

1889, Dec. LEGRAS, GUSTAVE, M.Sc.; Assistant Professor of Mathematics, College of the City of New York. *17 Lexington Avenue,* New York, N. Y.

1900, Oct. LEHMER, DERRICK NORMAN, M.A., Ph.D. (Chicago); Assistant Professor of Mathematics, University of California, Berkeley, Cal. *2612 Manoa Avenue.*

1903, Aug. LENNES, NELS JOHANN, M.Sc.; Instructor in Mathematics, John Marshall High School, Chicago, Ill. *5622 Ellis Avenue.*

1904, Oct. LESTER, OLIVER CLARENCE, M.A., Ph.D. (Yale); Instructor in Physics, Sheffield Scientific School, Yale University, New Haven, Conn. *93 Edgewood Avenue.*

1892, Feb. LEUSCHNER, ARMIN OTTO, B.A., Ph.D. (Berlin), Sc.D.; Member of the Astronomische Gesellschaft; F.R.A.S.; Associate Professor of Astronomy and Geodesy, and Director of the Students' Observatory, University of California, Berkeley, Cal. *2333 Cedar Street.*

1904, Sept. LEVI-CIVITA, TULLIO, Math.D. (Padua); Corresponding member of the Reale Istituto Veneto; Member of the Société Mathématique de France; Member of the Circolo Matematico di Palermo; Member of the Deutsche Mathematiker-Vereinigung; Professor of Theoretical Mechanics, University of Padua, Padua, Italy. *Via Altinate 14.*

Date of Admission.

1894, June | LING, GEORGE HERBERT, Ph.D. (Columbia); Tutor in Mathematics, Columbia University, New York, N. Y. *168 West 121st Street.*

1900, Dec. | LITTLE, CHARLES NEWTON, B.A., Ph.D. (Yale); Professor of Civil Engineering, University of Idaho, Moscow, Id.

1900, June | LOCKE, LESLIE LELAND, M.A.; *91 Quincy Street*, Brooklyn, N. Y.

1901, Feb. | LOVE, AUGUSTUS EDWARD HOUGH, M.A., D.Sc. (Oxford); F.R.S.; Honorary Secretary of the London Mathematical Society; Sedleian Professor of Natural Philosophy, Oxford University, Oxford, England. *34 St. Margaret's Road.*

1891, Apr. | LOVE, JAMES LEE, M.A.; Assistant Professor of Mathematics and Secretary of the Lawrence Scientific School, Harvard University, Cambridge, Mass. *16 University Hall.*

1894, Oct. | LOVETT, EDGAR ODELL, M.A., Ph.D. (Virginia, Leipsic); Member of the London Mathematical Society; Member of the Société Mathématique de France; Member of the Circolo Matematico di Palermo; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, Princeton University, Princeton, N. J.

1896, Nov. | *LUDLOW, HENRY HUNT, Graduate of the U. S. Military Academy; Major, U. S. Artillery. Agricultural College, Oktibbeha County, Miss.

1903, Feb. | LUNN, ARTHUR C., M.A., Ph.D. (Chicago); Member of the Astronomical and Astrophysical Society of America; Instructor in Applied Mathematics, University of Chicago, Chicago, Ill.

1894, Oct. | LYMAN, ELMER A., B.A.; Professor of Mathematics and Principal of the Michigan State Normal College, Ypsilanti, Mich. *126 North Washington Street.*

1904, Sept. | LYMER, JOHN CHARLES, M.A.; Acting Professor of Mathematics, Lawrence University, Appleton, Wis. *672 Lawe Street.*

1904, Dec. | LYTLE, ERNEST BARNES, B.Sc., M.A.; Instructor in Mathematics, University of Illinois, Urbana, Ill. *924 West Illinois Street.*

Date of Admission.

1889, Dec. *McCLINTOCK, EMORY, M.A., Ph.D., LL.D.; EX-PRESIDENT; F.I.A.; Member of the Actuarial Society of America; Member of the London Mathematical Society; Actuary of the Mutual Life Insurance Company of New York. *32 Nassau Street,* New York, N. Y.

1903, Aug. McCORMACK, THOMAS JOSEPH, LL.B., M.A.; Assistant Editor of the *Monist* and *The Open Court;* Principal of La Salle-Peru High School, La Salle, Ill.

1902, Apr. McDONALD, JOHN HECTOR, B.A., Ph.D. (Chicago); Instructor in Mathematics, University of California, Berkeley, Cal. *2532 Hillegass Avenue.*

1891, May McDOUGALL, ALEXANDER HIRAM, B.A.; Principal of the Collegiate Institute, Ottawa, Canada. *286 Kent Street.*

1897, Dec. McKAY, ALEXANDER CHARLES, B.A., LL.D.; Professor of Mathematics and Dean in Arts, McMaster University, Toronto, Canada.

1895, Nov. McKINNEY, THOMAS EMERY, M.A.; Professor of Mathematics and Astronomy, Marietta College, Marietta, O. *412 Wooster Street.*

1891, Apr. McMAHON, JAMES, M.A.; Member of the London Mathematical Society; Professor of Mathematics, Cornell University, Ithaca, N. Y. *7 Central Avenue.*

1891, Apr. McNEILL, MALCOLM, M.A., Ph.D.; Professor of Mathematics and Astronomy, Lake Forest College, Lake Forest, Ill.

1898, Dec. *MACAULAY, FRANCIS SOWERBY, M.A., D.Sc. (London); Member of the London Mathematical Society; Associate Editor of the *Mathematical Gazette;* Mathematical Master, St. Paul's School, West Kensington, London, W., England.

1891, May MACFARLANE, ALEXANDER, M.A., D.Sc. (Edinburgh), LL.D.; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Lecturer on Mathematical Physics, Lehigh University, South Bethlehem, Pa. *Victoria Avenue, Chatham, Ontario, Canada.*

1897, Dec. MACKAY, JOHN STURGEON, M.A., LL.D.; Fellow of the Royal Society of Edinburgh; Honorary Member of the Edinburgh Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Master in the Edinburgh Academy. *69 Northumberland Street,* Edinburgh, Scotland.

Date of Admission.		
1888,	Nov.	MACLAY, JAMES, C.E., Ph.D. (Columbia); Adjunct Professor of Mathematics, Columbia University, New York, N. Y.
1897,	Jan.	MADDISON, ISABEL, B.Sc., Ph.D. (Bryn Mawr); Member of the London Mathematical Society; Assistant to the President and Reader in Mathematics, Bryn Mawr College, Bryn Mawr, Pa.
1897,	Aug.	MALTBIE, WILLIAM HENRY, M.A., Ph.D. (Johns Hopkins); Professor of Mathematics, The Woman's College, Baltimore, Md.
1900,	June	MANCHESTER, JAMES EUGENE, B.Sc., D.Sc. (Tübingen); President of Vincennes University, Vincennes, Ind.
1891,	Nov.	MANN, CHARLES RIBORG, M.A., Ph.D. (Berlin); Assistant Professor of Physics, University of Chicago, Chicago, Ill.
1891,	Nov.	MANNING, HENRY PARKER, B.A., Ph.D. (Johns Hopkins); Assistant Professor of Pure Mathematics, Brown University, Providence, R. I.
1903,	Oct.	MANNING, WILLIAM ALBERT, M.A.; Instructor in Applied Mathematics, Stanford University, Cal.
1891,	June	MARKLEY, JOSEPH LYBRAND, M. A., Ph. D. (Harvard); Junior Professor of Mathematics, University of Michigan, Ann Arbor, Mich. *1320 South University Avenue.*
1891,	Apr.	MARTIN, ARTEMAS, M.A., Ph.D., LL.D; Member of the London Mathematical Society; Member of the Société Mathématique de France; Member of the Circolo Matematico di Palermo; Member of the Deutsche Mathematiker-Vereinigung; Member of the Edinburgh Mathematical Society; U. S. Coast and Geodetic Survey, Washington, D. C. *915 N Street, N. W.*
1899,	Dec.	MARTIN, EMILIE NORTON, Ph.D. (Bryn Mawr); Instructor in Mathematics, Mount Holyoke College, South Hadley, Mass.
1903,	Dec.	MARTIN, LOUIS ADOLPHE, JR., M.E., M.A.; Instructor in Mathematics and Mechanics, Stevens Institute, Hoboken, N. J. *824 Bloomfield Street.*
1893,	Feb.	MASCHKE, HEINRICH, Ph.D. (Göttingen); Member of the Deutsche Mathematiker-Vereinigung; Associate Professor of Mathematics, University of Chicago, Chicago, Ill.
1903,	Oct.	*MASON, MAX, B.L., Ph.D. (Göttingen); Member of the Deutsche Mathematiker-Vereinigung; Instructor in Mathematics, Yale University, New Haven, Conn.

Date of Admission.

1892, Mar. MENDIZÁBAL-TAMBORREL, JOAQUIN DE, M.A., D.Sc., Geographical and Military Engineer; Member of the London Mathematical Society; Member of the Société Mathématique de France; F.R.A.S.; Member of the Astronomische Gesellschaft; Captain of Engineer Corps. *Sociedad "Alzate," Palma No. 13*, Mexico, D. F., Mexico.

1903, Oct. *MERRILL, HELEN ABBOT, B.A., Ph.D. (Yale); Member of the Deutsche Mathematiker-Vereinigung; Associate Professor of Mathematics, Wellesley College, Wellesley, Mass.

1891, Apr. MERRIMAN, MANSFIELD, C.E., Ph.D.; Professor of Civil Engineering, Lehigh University, South Bethlehem, Pa.

1889, June MESSENGER, HIRAM JOHN, Lit.B., Ph.D.; Member of the Actuarial Society of America; Actuary of the Travelers Insurance Company, Hartford, Conn.

1891, Oct. *METZLER, WILLIAM H., B.A., Ph.D. (Clark); Fellow of the Royal Society of Edinburgh; Corresponding Fellow of the Royal Society of Canada; Member of the London Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Francis H. Root Professor of Mathematics, Syracuse University, Syracuse, N. Y.

1891, June MILLER, BLOOMFIELD JACKSON; Member of the Actuarial Society of America; Mathematician of the Mutual Benefit Life Insurance Company. *752 Broad Street*, Newark, N. J.

1891, May MILLER, EPHRAIM, M.A., Ph.D.; Member of the Astronomical and Astrophysical Society of America; Professor of Mathematics and Astronomy, University of Kansas, Lawrence, Kan. *1244 Tennessee Street.*

1903, Oct. MILLER, ERNEST ALLEN, B.Sc., M.A.; Instructor in Mathematics, Massachusetts Institute of Technology, Boston, Mass.

1898, Apr. *MILLER, GEORGE A., Ph.D.; Member of the London Mathematical Society; Member of the Société Mathématique de France; Member of the Deutsche Mathematiker-Vereinigung; Associate Professor of Mathematics, Stanford University, Cal. *P. O. Box 783.*

1899, Oct. MILLER, JOHN ANTHONY, M.A., Ph.D. (Chicago); Professor of Mechanics and Astronomy, University of Indiana, Bloomington, Ind. *Escondite.*

Date of Admission.

1900, Dec. MITCHELL, HENRY BEDINGER, E.E., M.A.; Tutor in Mathematics, Columbia University, New York, N. Y. *Linden Hill, Flushing.*

1904, Sept. MONCREIFF, WILLIAM FRANKLIN, SR., M.A., Ph.D. (Chicago); Professor of Mathematical Physics and Astronomy, Winthrop Normal and Industrial College, Rock Hill, S. C.

1891, May MOODY, WILLIAM ALBION, M.A.; Professor of Mathematics, Bowdoin College, Brunswick, Me. *60 Federal Street.*

1903, Feb. MOORE, CLARENCE LEMUEL ELISHA, B.Sc., M.A., Ph.D. (Cornell); Instructor in Mathematics, Massachusetts Institute of Technology, Boston, Mass. *468 Boylston Street.*

1891, May MOORE, ELIAKIM HASTINGS, B.A., Ph.D. (Yale, Göttingen, honorary), LL.D.; EX-PRESIDENT; Member of the National Academy of Sciences; Member of the Circolo Matematico di Palermo; Member of the London Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Editor of the *Transactions of the American Mathematical Society;* Professor and Head of the Department of Mathematics, University of Chicago, Chicago, Ill. *5607 Monroe Avenue.*

1902, Apr. MORENO, HALCOTT C., M.A., Ph.D. (Clark); Instructor in Applied Mathematics, Stanford University, Palo Alto, Cal. *P. O. Box 92.*

1904, Dec. MORITZ, ROBERT EDOUARD, B.Sc., Ph.D. (Nebraska, Strassburg); Professor of Mathematics, University of Washington, Seattle, Wash.

1891, May MORLEY, FRANK, M.A., Sc.D. (Cambridge); Member of the London Mathematical Society; Editor of the *Bulletin of the American Mathematical Society;* Editor of the *American Journal of Mathematics;* Professor of Mathematics, Johns Hopkins University, Baltimore, Md.

1904, Apr. MORRISON, FRANK MARION, B.A.; Professor of Mathematics and Astronomy, Buchtel College, Akron, O.

1900, Feb. MOULTON, FOREST RAY, B.A., Ph.D. (Chicago); F.R.A.S.; Member of the Astronomical and Astrophysical Society of America; Associate Editor of the *Journal of Geography;* Assistant Professor of Astronomy, University of Chicago, Chicago, Ill.

Date of Admission.

1900, Dec. *MUKHOPÂDHYÁY, ASUTOSH, M.A., LL.D.; Member of the Société Mathématique de France; Member of the Edinburgh Mathematical Society; Member of the Circolo Matematico di Palermo; F.R.A.S.; Examiner in Mathematics and Member of the Syndicate, University of Calcutta; Professor of Mathematics at the Indian Association for the Cultivation of Science. *77 Russa Road North*, Bhowanipore, Calcutta, India.

1898, Oct. MULLEN, LORING BLANCHARD, Ph.D.; Instructor in Mathematics, Morris High School, New York, N. Y.

1890, Dec. MURRAY, DANIEL ALEXANDER, B.A., Ph.D. (Johns Hopkins); Professor of Mathematics, Dalhousie College, Halifax, Nova Scotia, Canada.

1904, Apr. MYERS, GEORGE WILLIAM, M.L., Ph.D. (Munich); Member of the Astronomische Gesellschaft; Member of the Astronomical and Astrophysical Society of America; Professor of the Teaching of Mathematics and Astronomy, University of Chicago, Chicago, Ill. *6444 Greenwood Avenue.*

1903, Aug. NEIKIRK, LEWIS IRVING, M.Sc., Ph.D. (Pennsylvania); Fellow in Mathematics, University of Pennsylvania, Philadelphia, Pa. *103 East Nyack Avenue, Lansdowne, Pa.*

1891, June NELSON, ALFRED BRIERLEY, M.A., M.D.; Professor of Mathematics, Centre College, Danville, Ky. *443 Lexington Street.*

1895, Dec. NEUFELD, JULIUS L., E.E.; Professor of Mathematics, Central High School, Philadelphia, Pa. *140 North Broad Street.*

1891, Nov. NEWCOMB, SIMON, D.Sc., Ph.D., LL.D., D.C.L.; EX-PRESIDENT; Member of the National Academy of Sciences; Foreign Member of the Royal Society of London; Foreign Associate of the Institute of France; Foreign Associate of the Royal Astronomical Society; President of the Astronomical and Astrophysical Society of America; Co-editor of the *American Journal of Mathematics;* Emeritus Professor of Mathematics and Astronomy, Johns Hopkins University; Professor of Mathematics, U. S. Navy, retired. *1620 P Street*, Washington, D. C.

1904, Dec. NEWKIRK, BURT LEROY, M.A., Ph.D. (Munich); Member of the Astronomische Gesellschaft; Member of the Deutsche Mathematiker-Vereinigung; Instructor in Mathematics, University of California, Berkeley, Cal. *Students' Observatory.*

Date of Admission.		
1895,	Oct.	NEWSON, HENRY BYRON, M.A., Ph.D.; Member of the Circolo Matematico di Palermo; Member of the Deutsche Mathematiker-Vereinigung; Editor of the *Kansas University Science Bulletin;* Associate Professor of Mathematics, University of Kansas, Lawrence, Kan.
1897,	Jan.	NEWSON, MARY WINSTON, B.A., Ph.D. (Göttingen). *1702 Massachusetts Street,* Lawrence, Kan.
1899,	Aug.	NICHOLS, THOMAS FLINT, B.A., Ph.D. (Clark); Professor of Applied Mathematics, Hamilton College, Clinton, N. Y.
1900,	Dec.	NICHOLS, WALTER SMITH, M.A.; Member of the Actuarial Society of America; Editor of the *Insurance Monitor* and *Insurance Law Journal. 100 William Street,* New York, N. Y.
1899,	Dec.	NOBLE, CHARLES ALBERT, B.Sc., Ph.D. (Göttingen); Assistant Professor of Mathematics, University of California, Berkeley, Cal. *2731 Durant Avenue.*
1891,	Dec.	OLDS, GEORGE DANIEL, M.A.; Professor of Mathematics, Amherst College, Amherst, Mass.
1891,	Apr.	OSBORNE, GEORGE ABBOTT, B.Sc.; Walker Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass.
1895,	Feb.	OSGOOD, WILLIAM FOGG, M.A., Ph.D. (Erlangen); Member of the National Academy of Sciences; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, Harvard University, Cambridge, Mass. *60 Walker Street.*
1894,	Oct.	OSTERBERG, MAX, E.E., M.A. *11 Broadway,* New York, N. Y.
1900,	Dec.	PAGE, JAMES MORRIS, M.A., Ph.D. (Leipsic); Professor of Mathematics and Dean of the Academic Faculty, University of Virginia, Charlottesville, Va.
1897,	May	PALMIÉ, ANNA HELENE, B.Ph.; Professor of Mathematics, College for Women, Western Reserve University, Cleveland, O. *2733 Euclid Avenue.*
1894,	Mar.	PARTRIDGE, EDWARD ANSON, B.Sc., M.A., Ph.D.; Professor of Physics, Central Manual Training School, Philadelphia, Pa. *17th and Wood Streets.*
1896,	Dec.	PATTERSON, JAMES LAWSON, B.Ph., D.Sc. (Princeton); Head Master of Chestnut Hill Academy, Chestnut Hill, Philadelphia, Pa.

Date of Admission.

1891, May PEIRCE, BENJAMIN OSGOOD, Ph.D. (Leipsic); Hollis Professor of Mathematics and Natural Philosophy, Harvard University, Cambridge, Mass. *The Jefferson Physical Laboratory.*

1898, Oct. PEIRCE, JAMES MILLS, M.A.; Member of the Deutsche Mathematiker-Vereinigung; Perkins Professor of Astronomy and Mathematics, Harvard University, Cambridge, Mass. *4 Kirkland Place.*

1898, Oct. PELL, ALEXANDER, Ph.D. (Johns Hopkins); Professor of Mathematics, University of South Dakota, Vermillion, S. D.

1893, Oct. PETTEGREW, DAVID LYMAN, General Special Agent of the Massachusetts Mutual Life Insurance Company, Springfield, Mass. *P. O. Box 75, Worcester, Mass.*

1892, Oct. PFISTER, JOSEPH CLEMENT, M.A.; Instructor in Mechanics, Columbia University, New York, N. Y.

1896, Nov. PHILLIPS, ANDREW WHEELER, M.A., Ph.D. (Yale); Professor of Mathematics and Dean of the Graduate School, Yale University, New Haven, Conn. *209 York Street.*

1903, Aug. PIERCE, ARCHIE BURTON, B.Sc., M.A., Ph.D. (Zurich); Member of the Deutsche Mathematiker-Vereinigung; Instructor in Mathematics, University of Michigan, Ann Arbor, Mich. *403 East Washington Street.*

1894, Oct. PIERPONT, JAMES, Ph.D. (Vienna); Member of the Société Mathématique de France; Member of the London Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, Yale University, New Haven, Conn. *42 Mansfield Street.*

1889, Dec. PIERSON, ISRAEL CORIELL, M.A., Ph.D.; Member of the Actuarial Society of America; Actuary of the Washington Life Insurance Company of New York. *141 Broadway,* New York, N. Y.

1892, Nov. PLUMLEY, GARDNER LADD, Member of the Actuarial Society of America; Assistant Actuary of the Home Life Insurance Company. *256 Broadway,* New York, N. Y.

1890, Dec. POOR, CHARLES LANE, Ph.D. (Johns Hopkins); Member of the Astronomische Gesellschaft; F.R.A.S.; Editor of the *Annals of the New York Academy of Sciences;* Lecturer in Astronomy, Columbia University, New York, N. Y. *4 East 48th Street.*

Date of Admission.

1897, Feb. PORTER, MILTON BROCKETT, B.Sc., M.A., Ph.D. (Harvard); Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, University of Texas, Austin, Texas.

1892, May PRENTISS, ROBERT WOODWORTH, M.Sc.; Professor of Mathematics and Astronomy, Rutgers College, New Brunswick, N. J. *122 Bayard Street.*

1889, Dec. PUPIN, MICHAEL IDVORSKY, B.A., Ph.D. (Berlin); Professor of Electro-Mechanics, Columbia University, New York, N. Y.

1891, June PURYEAR, CHARLES, B.Sc., M.A., C.E.; Professor of Mathematics, Agricultural and Mechanical College of Texas, College Station, Texas.

1902, Apr. PUTNAM, THOMAS MILTON, M.Sc., Ph.D. (Chicago); Instructor in Mathematics, University of California, Berkeley, Cal.

1903, Dec. RAGSDALE, VIRGINIA, B.A.; Teacher of Mathematics, Dr. Sachs' School for Girls, New York, N. Y. *116 West 59th Street.*

1894, Mar. RAND, JOHN HOLMES, M.A.; Professor of Mathematics, Bates College, Lewiston, Me. *28 Frye Street.*

1904. Oct. RANUM, ARTHUR, B.A.; Instructor in Mathematics, University of Wisconsin, Madison, Wis.

1903. Dec. RASOR, S. EUGENE, B.Sc., M.A.; Instructor in Mathematics, Ohio State University, Columbus, Ohio.

1891, Dec. RAYSON, AMY, B.A.; Joint Principal of School for Girls, New York, N. Y. *176 West 75th Street.*

1888, Nov. REES, JOHN KROM, M.A., M.E., Ph.D.; Member of the Astronomische Gesellschaft; F.R.A.S.; Professor of Astronomy and Director of the Observatory, Columbia University, New York, N. Y.

1900, Apr. REID, LEGH WILBER, B.A., M.Sc., Ph.D. (Göttingen); Associate Professor of Mathematics, Haverford College, Haverford, Pa.

1903, Feb. REYNOLDS, FREDERICK GREGORY, LL.B., Sc.D.; Instructor in Mathematics, College of the City of New York, New York, N. Y. *17 Lexington Avenue.*

1893, Apr. RICE, CHARLES MOEN, B.A. Worcester, Mass. *P. O. Box 215.*

Date of Admission.

1899, Aug. *Richmond, Herbert William, M.A.: Fellow of the Cambridge Philosophical Society; Member of the London Mathematical Society; Fellow and Lecturer of King's College, and University Lecturer, Cambridge University, Cambridge, England.

1902, Oct. Rietz, Henry Lewis, B.Sc., Ph.D. (Cornell); Assistant Professor of Mathematics, University of Illinois, Urbana, Ill. *918 West Oregon Street.*

1903, Apr. Riggs, Norman C., M.Sc.; Associate Professor of Mathematics, Armour Institute of Technology, Chicago, Ill.

1891, May Rockwood, Charles Greene, Jr., M.A., Ph.D. (Yale); Professor of Mathematics, Princeton University, Princeton, N. J. *34 Bayard Lane.*

1896, Apr. Roe, Edward Drake, Jr., M.A., Ph.D. (Erlangen); Member of the Deutsche Mathematiker-Vereinigung; John Raymond French Professor of Mathematics, Syracuse University, Syracuse, N. Y. *105 Ostrander Avenue.*

1902, Apr. Roever, William Henry, B.Sc., M.A.; *64 Kirkland Street*, Cambridge, Mass.

1897, Feb. Rothrock, David Andrew, M.A., Ph.D. (Leipsic); Member of the Deutsche Mathematiker-Vereinigung; Associate Professor of Mathematics, University of Indiana, Bloomington, Ind.

1904, Feb. Running, Theodore Rudolph, M.Sc., Ph.D. (Wisconsin); Instructor in Mathematics, University of Michigan, Ann Arbor, Mich. *1108 Prospect Street.*

1903, Aug. Rusk, William James, M.A.; Professor of Mathematics, Iowa College, Grinnell, Ia. *1022 Park Street.*

1898, Aug. Safford, Frederick Hollister, M.A., Ph.D. (Harvard); Instructor in Mathematics, University of Pennsylvania, Philadelphia, Pa. *College Hall.*

1897, Dec. Saurel, Paul Louis, B.Sc., D.Sc. (Bordeaux); Instructor in Mathematics, College of the City of New York. *17 Lexington Avenue*, New York, N. Y.

1891, Nov. Sayre, Herbert Armistead, B.E., Ph.D. (Johns Hopkins); Professor of Physics, University of Alabama, University, Ala.

1894, Mar. Schlegel, Victor, Ph.D. (Leipsic); Member of the Société Mathématique de France; Member of the Circolo Matematico di Palermo; Professor of Mathematics, Königliche Höhere Maschinenbauschule, Hagen, Germany. *Volmestrasse, 62.*

Date of Admission.		
1892.	Feb.	*SCHMIEDEL, OSCAR, B.Sc., M.A. Bethany, W. Va.
1900.	Oct.	SCHOTTENFELS, IDA MAY, M.A. *1230 Amsterdam Avenue*, New York, N. Y.
1892,	Apr.	SCHULTZE, ARTHUR, Ph.D.; High School of Commerce, New York, N. Y.
1893,	Oct.	SCHWATT, ISAAC J., Ph.D.; Member of the Deutsche Mathematiker-Vereinigung; Assistant Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa.
1891,	May	SCOTT, CHARLOTTE ANGAS, D.Sc. (London); Member of the London Mathematical Society; Member of the Edinburgh Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Honorary Member of the Amsterdam Mathematical Society; Co-Editor of the *American Journal of Mathematics;* Professor of Mathematics, Bryn Mawr College, Bryn Mawr, Pa.
1902,	Oct.	SCOTT, GEORGE HARVEY, M.A.; Professor of Mathematics and Astronomy, Yankton College, Yankton, S. D.
1889,	June	SEARLE, REV. GEORGE MARY, M.A., Ph.D. Catholic University, Washington, D. C.
1895,	Aug.	SEE, THOMAS JEFFERSON JACKSON, M.A., Ph.D. (Berlin); Member of the Astronomische Gesellschaft; F.R.A.S.; Member of the Société Mathématique de France; Member of the London Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, U. S. Navy, Mare Island, Cal. *Naval Observatory.*
1902,	Feb.	SÉGUIER, JEAN ARMAND MARIE JOSEPH DE, D.Sc.; Member of the Société Mathématique de France. *56 Rue des Saints Pères*, Paris, France.
1899,	Aug.	SELLEW, GEORGE TUCKER, M.A., Ph.D.; Professor of Mathematics, Knox College, Galesburg, Ill.
1892,	June	SHACK, FERDINAND, B.Sc., M.A., LL.B. *56 Wall Street*, New York, N. Y.
1891,	Apr.	SHATTUCK, SAMUEL WALKER, B.Sc., M.A., C.E.; Professor of Mathematics, University of Illinois, Champaign, Ill.
1894,	Mar.	SHAW, JAMES BYRNIE, M.Sc., D. Sc.; Professor of Mathematics, James Milliken University, Decatur, Ill. *314 North College Street.*

Date of Admission.		
1899,	Oct.	SINGER, SIMON AUGUSTUS, B.A.; Professor of Mathematics, Capital University, Columbus, Ohio.
1904,	Oct.	SISAM, CHARLES HERSCHEL, M.A.; Instructor in Mathematics, U. S. Naval Academy, Annapolis, Md. *252 King George Street.*
1899,	Aug.	SKINNER, ERNEST BROWN, B.A., Ph.D. (Chicago); Assistant Professor of Mathematics, University of Wisconsin, Madison, Wis. *414 Charter Street.*
1899,	Oct.	SLAUGHT, HERBERT ELLSWORTH, M.A., Ph.D. (Chicago); Assistant Professor of Mathematics, University of Chicago, Chicago, Ill.
1901,	Apr.	SLOCUM, STEPHEN ELMER, B.E., Ph.D. (Clark); Assistant Professor of Applied Mathematics, University of Cincinnati, Cincinnati, Ohio.
1904,	Oct.	SMITH, ADELAIDE; Lecturer on Mathematics, Huguenot College, Wellington, Cape Colony, S. A.
1900,	Oct.	SMITH, BURKE, B.Sc., Ph.D. (Yale); Instructor in Mathematics, Purdue University, Lafayette, Ind. *110 South Ninth Street.*
1904,	Sept.	SMITH, CLARA ELIZA, B.A., Ph.D. (Yale). Northfield, Conn.
1893,	Oct.	SMITH, DAVID EUGENE, M.Ph., Ph.D.; Member of the Deutsche Mathematiker-Vereinigung; Editor of the *Bulletin of the American Mathematical Society;* Professor of Mathematics, Teachers College, Columbia University, New York, N. Y.
1898,	Apr.	SMITH, EUGENE RANDOLPH, M.A.; Instructor in Mathematics, Montclair High School, Montclair, N. J. *79 Valley Road.*
1891,	May	SMITH, OTIS DAVID, M.A., LL.D.; Professor of Mathematics, Alabama Polytechnic Institute, Auburn, Ala.
1891,	Nov.	SMITH, PERCEY FRANKLYN, Ph.D.; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, Sheffield Scientific School, Yale University, New Haven, Conn. *78 Pearl Street.*
1891,	Apr.	SMITH, WILLIAM BENJAMIN, M.A., Ph.D. (Göttingen); Professor of Mathematics, Tulane University, New Orleans, La.
1904,	Oct.	SNELLING, CHARLES MERCER, Graduate of the Virginia Military Institute, M.A.; Junior Professor of Mathematics, University of Georgia, Athens, Ga. *P. O. Box 361.*
1889,	Dec.	SNOOK, THOMAS EDWARD, M.E.; Architect and Engineer. *261 Broadway,* New York, N. Y.

Date of Admission.		
1895,	Apr.	SNYDER, MONROE BENJAMIN, M.A.; Member of the Astronomische Gesellschaft; F.R.A.S.; Professor of Astronomy and Applied Mathematics and Head of the Department of Mathematics, Central High School, Philadelphia, Pa.; Director of the Philadelphia Observatory. *2402 North Broad Street.*
1896,	Nov.	SNYDER, VIRGIL, M.A., Ph.D. (Göttingen); Member of the Deutsche Mathematiker-Vereinigung; Editor of the *Bulletin of the American Mathematical Society;* Assistant Professor of Mathematics, Cornell University, Ithaca, N. Y. *214 University Avenue.*
1892,	May	SQUIER, GEORGE OWEN, Ph.D. (Johns Hopkins); Major, Signal Corps, U. S. Army; Chief Signal Officer, Department of California, *Phelan Building,* San Francisco, Cal.
1888,	Nov.	STABLER, EDWARD LINCOLN, M.A., Ph.D. (Columbia); U. S. Leather Co., *26 Ferry Street,* New York, N. Y.
1894,	Nov.	STECKER, HENRY FREEMAN, M.Sc., Ph.D.; Member of the Deutsche Mathematiker-Vereinigung; Instructor in Mathematics, Pennsylvania State College, State College, Pa. *Lock Box 305.*
1891,	Jan.	STEINMETZ, CHARLES PROTEUS, Ph.D; Consulting Engineer of the General Electric Company; Professor of Electrical Engineering, Union University, Schenectady, N. Y.
1891,	June	ST. JOHN, HOWELL WILLIAMS, Ph.B.; Member of the Actuarial Society of America; Corresponding Member of the Institut des Actuaires Français; Actuary of the Ætna Life Insurance Company, Hartford, Conn. *P. O. Box 913.*
1891,	May	STONE, ORMOND, M.A.; Editor of the *Annals of Mathematics;* Director of the Leander McCormick Observatory and Professor of Practical Astronomy, University of Virginia, Charlottesville, Va.
1897,	Feb.	STORY, WILLIAM EDWARD, B.A., Ph.D. (Leipsic); Member of the London Mathematical Society; Professor of Mathematics, Clark University, Worcester, Mass.
1902,	Apr.	STRINGHAM, IRVING, B.A., Ph.D. (Johns Hopkins); Professor of Mathematics, University of California, Berkeley, Cal. *The Owl's Nest, Prospect Avenue.*
1903,	Feb.	STROMQUIST, CARL EBEN, B.Sc., Ph.D. (Yale); Instructor in Mathematics, John C. Green School of Science, Princeton University, Princeton, N. J.

Date of Admission.

1895, Dec. STRONG, WENDELL MELVILLE, LL.B., M.A., Ph.D. (Yale); Member of the Actuarial Society of America; Assistant Actuary of the Mutual Life Insurance Company of New York. *Room 1414, Tribune Building*, Chicago.

1904, Oct. STUDY, EDUARD, Ph.D.; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, University of Bonn, Bonn, Germany. *Goebenstrasse 28.*

1903, Apr. SWARTZEL, KARL DALE, M.Sc.; Ohio State University, Columbus, Ohio.

1904, Apr. SWIFT, ELIJAH, M.A. *Maschmühlenweg 6, Göttingen, Germany.*

1891, May *TABER, HENRY, B.Ph., Ph.D. (Johns Hopkins); Member of the London Mathematical Society; Professor of Mathematics, Clark University, Worcester, Mass.

1900, Dec. TALIAFERRO, THOMAS HARDY, C.E., Ph.D. (Johns Hopkins); President, University of Florida, Lake City, Fla.

1901, Oct. TALLMAN, WILLIAM DUANE, B.Sc.; Professor of Mathematics, Montana State College of Agriculture and Mechanic Arts, Bozeman, Mon. *726 Third Avenue South.*

1896, Nov. *TANNER, JOHN HENRY, B.Sc., Ph.D.; Professor of Mathematics, Cornell University, Ithaca, N. Y. *Cornell Heights.*

1903, Oct. TAYLOR, EDSON HOMER, B.Sc.; *66 Oxford Street*, Cambridge, Mass.

1891, Apr. TAYLOR, JAMES MORFORD, M.A., LL.D.; Professor of Mathematics, Colgate University, Hamilton, N. Y.

1903, Feb. TAYLOR, WILLIAM ERASTUS, M.Ph.; Ph.D. (Syracuse); Associate Professor of Mathematics, Syracuse University, Syracuse, N. Y. *722 Irving Avenue.*

1899, Oct. THOMPSON, EDWARD PAYSON, M.A.; Professor of Mathematics and Astronomy, Miami University, Oxford, Ohio.

1891, Apr. *THOMPSON, HENRY DALLAS, M.A., D.Sc., Ph.D.; Professor of Mathematics, Princeton University, Princeton, N. J. *11 Morven Street.*

1897, Jan. THORNBURG, CHARLES LEWIS, B.Sc., C.E., Ph.D.; Professor of Mathematics and Astronomy, Lehigh University, South Bethlehem, Pa. *308 Packer Avenue.*

1901, Oct. TORY, HENRY M., M.A., D.Sc.; Associate Professor of Mathematics, McGill University, Montreal, Canada.

Date of Admission.		
1902,	Apr.	TOWNLEY, SIDNEY DEAN, M.Sc., Sc.D. (Michigan); Observer in charge of the International Latitude Observatory, Ukiah, Cal.
1895,	Nov.	TOWNSEND, EDGAR JEROME, Ph.D. (Göttingen); Associate Professor of Mathematics, University of Illinois, Champaign, Ill. *510 John Street.*
1903,	Aug.	TRUEBLOOD, MARY ESTHER, M.Ph.; Instructor in Mathematics, Mount Holyoke College, South Hadley, Mass. *6 Maple Street, Springfield, Mass.*
1894,	Aug.	TYLER, HARRY WALTER, B.Sc., Ph.D. (Erlangen); Professor of Mathematics and Secretary of the Faculty, Massachusetts Institute of Technology, Boston, Mass.
1897,	Dec.	UNDERHILL, MARY, M.Sc. *132½ East 19th Street,* New York, N. Y.
1903,	Aug.	UPTON, CLIFFORD BREWSTER, B.A.; Assistant in Mathematics, Teachers College, Columbia University; Instructor in Mathematics, Horace Mann High School, New York, N. Y.
1888,	Nov.	VAN AMRINGE, J. HOWARD, M.A., Ph.D. L.H.D., LL.D.; EX-PRESIDENT; Professor of Mathematics and Dean of Columbia College, Columbia University, New York, N. Y. *The Glenmore, 859 Seventh Avenue.*
1903,	Oct.	VAN BENSCHOTEN, ANNA LAVINIA, M.Sc.; Professor of Mathematics, Wells College, Aurora, N. Y.
1902,	Feb.	VAN DER HEYDEN, ALEXANDER FREDERICK, M.A.; Fellow of the University of Durham; Member of the Mathematical Association; Mathematical Master, Middlesbrough High School, Middlesbrough, England. *3 St. John's Terrace.*
1902,	Oct.	VAN DER VRIES, JOHN N., M.A., Ph.D. (Clark); Assistant Professor of Mathematics, University of Kansas, Lawrence, Kansas. *1136 Tennessee Street.*
1903,	Feb.	VAN ORSTRAND, CHARLES EDWIN, M.Sc.; U. S. Geological Survey, Washington, D. C.
1893,	Apr.	VAN VLECK, EDWARD BURR, M.A., Ph.D. (Göttingen); Member of the Deutsche Mathematiker-Vereinigung; Associate Editor of the *Transactions of the American Mathematical Society;* Professor of Mathematics, Wesleyan University, Middletown, Conn.
1891,	Apr.	VAN VLECK, JOHN MONROE, M.A., LL.D.; Member of the Astronomische Gesellschaft; Professor of Mathematics and Astronomy, Wesleyan University, Middletown, Conn.

Date of Admission.		
1900,	June	VAUGHN, WILLIAM JAMES, M.A., LL.D.; Professor of Mathematics and Astronomy, Vanderbilt University, Nashville, Tenn.
1903,	Aug.	VEBLEN, OSWALD, B.A., Ph.D. (Chicago); Associate in Mathematics, University of Chicago, Chicago, Ill.
1900,	Dec.	VIVIAN ROXANA HAYWARD, B.A., Ph.D. (Pennsylvania); Instructor in Mathematics, Wellesley College, Wellesley, Mass. *106 Gordon Avenue, Hyde Park, Mass.*
1891,	Oct.	WAIT, LUCIEN AUGUSTUS, B.A.; Professor of Mathematics, Cornell University, Ithaca, N. Y. *The Circle.*
1891,	Apr.	WALDO, CLARENCE ABIATHAR, M.A., Ph.D.; Head Professor of Mathematics, Purdue University, Lafayette, Ind. *113 South Ninth Street.*
1898,	Dec.	WALKER, BUZZ M., M.Sc.; Professor of Mathematics and Director of the School of Engineering, Mississippi Agricultural and Mechanical College, Agricultural College, Miss.
1894,	Feb.	WALKER, LON CAIN, M.A.; Professor of Mathematics, Colorado School of Mines, Golden, Colo.
1898,	Apr.	WASHBURNE, ALVA COURTENAY, Member of the Actuarial Society of America; Actuarial Division, Metropolitan Life Insurance Company. *1 Madison Avenue,* New York, N. Y.
1902,	Apr.	WEBB, HARRY EMMETT, B.A.; Instructor in Mathematics and Science, Stevens School, Hoboken, N. J. *133 Summit Avenue, Summit, N. J.*
1891,	Oct.	WEBB, JOHN BURKITT, C.E.; Professor of Mathematics and Mechanics, Stevens Institute of Technology, Hoboken, N. J.
1891,	May	WEBSTER, ARTHUR GORDON, B.A., Ph.D. (Berlin); Member of the National Academy of Sciences; Member of the Deutsche Mathematiker-Vereinigung; Professor of Physics, Clark University, Worcester, Mass.
1891,	June	WEEKS, RUFUS WELLS, Member of the Actuarial Society of America; Second Vice-President and Chief Actuary of the New York Life Insurance Company. *346 Broadway,* New York, N. Y.
1892,	Feb.	WELD, LAENAS GIFFORD, B.Sc., M.A.; Professor of Mathematics and Astronomy and Dean of the Graduate College, State University of Iowa, Iowa City, Ia.

Date of Admission.		
1891,	Apr.	WELLS, WEBSTER, B.Sc.; Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass.
1891,	May	WENTWORTH, GEORGE ALBERT, M.A. Exeter, N. H.
1896,	Sept.	WENTZ, ESTELLA KATE, M.Sc.; Instructor in Mathematics, Manual Training High School, Indianapolis, Ind.
1897,	Feb.	WERNICKE, AUGUST LUDWIG PAUL, Ph.D. (Göttingen); Professor of Modern Languages, State College of Kentucky, Lexington, Ky. *609 South Limestone Street.*
1897,	Dec.	*WESTERN, ALFRED EDWARD, M.A.; Member of the London Mathematical Society; Fellow of the Cambridge Philosophical Society. *36 Lancaster Gate,* London, W., England.
1902,	Dec.	WESTFALL, W. D. A., B.A.; Instructor in Mathematics, Yale University, New Haven, Conn. *Am Feuerschanzengraben 3, Göttingen, Germany.*
1898,	Aug.	WESTLUND, JACOB, Ph.D. (Yale); Member of the Deutsche Mathematiker-Vereinigung; Associate Professor of Mathematics, Purdue University, Lafayette, Ind. *222 Main Street, West Lafayette.*
1892,	Nov.	WHITE, HENRY SEELY, B.A., Ph.D. (Göttingen); Member of the Deutsche Mathematiker-Vereinigung; Associate Editor of the *Transactions of the American Mathematical Society;* Noyes Professor of Pure Mathematics, Northwestern University, Evanston, Ill. *619 University Place.*
1902,	Dec.	WHITE, WILLIAM FRANK, M.A., B.D., Ph.D.; Head of the Department of Mathematics, State Normal School, New Paltz, N. Y. *Glenwood Springs, Colo.*
1902,	Apr.	WHITNEY, ALBERT WURTS, B.A.; Assistant Professor of Mathematics and Insurance Methods, University of California, Berkeley, Cal. *Canyon Road.*
1897,	Dec.	*WHITTAKER, EDMUND TAYLOR, M.A.; Member of the London Mathematical Society; Secretary of the Royal Astronomical Society; Fellow and Lecturer of Trinity College, Cambridge, England.
1897,	Feb.	WHITTEMORE, JAMES KELSEY, M.A.; Instructor in Mathematics, Harvard University, Cambridge, Mass. *16 Claverly Hall.*
1899,	Feb.	WILCZYNSKI, ERNST JULIUS, Ph.D. (Berlin); Assistant Professor of Mathematics, University of California, Berkeley, Cal.; Research Associate of the Carnegie Institution. *25 Bergstrasse, Hamburg, Germany.*

Date of Admission.		
1892,	May	WILLARD, JOSEPH MOODY, B.A.; Professor of Mathematics, Pennsylvania State College, State College, Center County, Pa.
1895,	May	WILLIAMS, CLARKE BENEDICT, M.A.; Olney Professor of Mathematics, Kalamazoo College, Kalamazoo, Mich. *516 West South Street.*
1892,	May	WILLIAMS, ELLA CORNELIA, M.A. *106 West 49th Street,* New York, N. Y.
1903,	Aug.	WILLIAMS, ROLAND HUGH, B.Sc.; Teacher of Mathematics, Horace Mann School, New York, N. Y.
1898,	Apr.	WILLIAMS, WILLIAM HILL, M.A.; Professor of Mathematics, Wisconsin State Normal School, Platteville, Wis.
1891,	May	WILLSON, FREDERICK NEWTON, M.A., C.E.; Professor of Descriptive Geometry, Stereotomy, and Technical Drawing, John C. Green School of Science, Princeton University, Princeton, N. J. *P. O. Box 63.*
1901,	Oct.	WILSON, ALBERT HARRIS, M.Sc.; Instructor in Mathematics, University of Illinois, Champaign, Ill. *310 East Green Street.*
1904,	Sept.	WILSON, DELONZA TATE, M.A.; Member of the Astronomical and Astrophysical Society of America; Assistant Professor of Mathematics and Astronomy, Case School of Applied Science, Cleveland, O.
1899,	Dec.	WILSON, EDWIN BIDWELL, B.A., Ph.D. (Yale); Member of the Deutsche Mathematiker-Vereinigung; Associate Editor of the *Transactions of the American Mathematical Society;* Instructor in Mathematics, Yale University, New Haven, Conn.
1900,	Dec.	WILSON, NORMAN RICHARD, M.A.; Lecturer in Mathematics, Wesley College, University of Manitoba, Winnipeg, Canada.
1903,	Oct.	WILSON, ROBERT EDWARD, B.Ph., M.A.; Instructor in Mathematics, Northwestern University, Evanston, Ill. *Nikolausbergerweg 49, Göttingen, Germany.*
1899,	Dec.	WOOD, RUTH GOULDING, B.L., Ph.D. (Yale); Instructor in Mathematics, Smith College, Northampton, Mass. *8 Washington Avenue.*
1895,	Oct.	WOODS, FREDERICK S., M.A., Ph.D. (Göttingen); Editor of the *Annals of Mathematics;* Associate Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass. *21 Church Street, Newton, Mass.*

Date of Admission.		
1891,	May	WOODWARD, ROBERT SIMPSON, C.E., Ph.D., LL.D.; EX-PRESIDENT; Member of the National Academy of Sciences; Associate Editor of *Science;* President of the Carnegie Institution; Professor of Mechanics and Mathematical Physics and Dean of the School of Pure Science, Columbia University, New York, N. Y.
1891,	May	WORTHEN, THOMAS WILSON DORR, M.A.; Professor of Mathematics, Dartmouth College, Hanover, N. H.
1903,	Dec.	WRIGHT, JOSEPH EDMUND, M.A.; Member of the London Mathematical Society; Fellow of Trinity College, Cambridge, England; Associate in Mathematics, Bryn Mawr College, Bryn Mawr, Pa.
1898,	Oct.	WRIGHT, WALTER CHANNING, Member of the Actuarial Society of America; Consulting Life Insurance Actuary. *45 Milk Street, Room 77,* Boston, Mass.
1902,	Oct.	YANNEY, BENJAMIN FRANKLIN, Professor of Mathematics, Mount Union College, Alliance, Ohio.
1903,	Dec.	YOUNG, ARCHER EVERETT, B.A., Ph.D. (Princeton); Instructor in Mathematics, Purdue University, Lafayette, Ind. *712 South Street.*
1891,	May	YOUNG, JACOB WILLIAM ALBERT, M.A., Ph.D. (Clark); Assistant Professor of the Pedagogy of Mathematics, University of Chicago, Chicago, Ill. *5430 Washington Avenue.*
1902,	Feb.	YOUNG, JOHN WESLEY, M.A., Ph.D. (Cornell); Member of the Deutsche Mathematiker-Vereinigung; Instructor in Mathematics, Northwestern University, Evanston, Ill. *1302 Hinman Avenue.*
1902,	Oct.	YOUNG, WILLIAM HENRY, M.A., Sc.D.; Member of the London Mathematical Society; Fellow of the Cambridge Philosophical Society; Member of the Deutsche Mathematiker-Vereinigung; Lecturer in Mathematics, Girton College, Cambridge, England. *Peterhouse.*
1893,	Mar.	YOWELL, EVERETT IRVING, M.Sc., C.E.; Computer at the Naval Observatory, Washington, D. C.
1891,	Apr.	ZIWET, ALEXANDER, C.E.; Member of the Deutsche Mathematiker-Vereinigung; Editor of the *Bulletin of the American Mathematical Society;* Professor of Mathematics, University of Michigan, Ann Arbor, Mich. *644 South Ingalls Street.*

Number of members, January 1, 1904	473
Numbers of members, January 1, 1903	455
Members admitted during the year 1903	41
Members withdrawing during the year 1903	23
Number of life-members	32

CONSTITUTION.

Article I.

This Society shall be called the American Mathematical Society.

Article II.

The object of the Society shall be to encourage and maintain an active interest in mathematical science.

Article III.

The officers of the Society shall be a President, two Vice-Presidents, a Secretary, a Treasurer, a Librarian, and a Committee of Publication to consist of three members who at the same time may hold individually any of the other offices.

Article IV.

The officers of the Society, the ex-Presidents, and twelve other members of the Society shall constitute a Council, which shall have general charge of the affairs of the Society.

Article V.

1. The officers of the Society and four other members of the Council shall be elected by ballot at the Annual Meeting of each year. An official ballot shall be sent to each member at least one month prior to the Annual Meeting, and such ballots, if returned to the Secretary in envelopes bearing the names of the voters, shall be counted at the Annual Meeting. Each such ballot shall contain a name proposed by the Council for each vacancy, with blank spaces in which the voter may substitute other names. A majority of all votes cast in person or by mail shall be necessary to election. In case of failure to secure a majority for any office, the members present at the Annual Meeting shall choose by ballot between the two having the highest number of votes. The ex-Presidents of the Society shall be permanent members of the Council; the term of office otherwise shall, beginning with the Annual Meeting in 1900, be two years for the President, one year for other officers, and three years for other members of the Council, and until their successors shall be elected. After the Annual Meeting in 1900, for election as President shall be eligible those members of the Society who have served in the office of Vice-President and who are not holding office as President or Vice-President; and for election as Vice-President shall be eligible those members of the Society not holding office as President or Vice-President. No elected member of the Council, having completed a term of three years, shall be reëlected until at least one year shall have intervened.

2. If the President of the Society die or resign before the expiration of his term of office, the Council may designate one of the Vice-Presidents to serve as Acting President until the next Annual Meeting, when a President shall be elected by the Society. Such vacancies as may exist at any time among the other offices may be filled by the Council. If any elected member of the Council die or resign more than one year before the expiration of his term, the vacancy for the unexpired term shall be filled by the Society at the next Annual Meeting.

Article VI.

This Constitution shall not be amended unless notice of the proposed amendment be sent by mail to every member of the Society at least four weeks in advance of the meeting at which such amendment is to be considered; and such amendment in order to be adopted must receive two-thirds of the votes cast in person and by mail.

BY-LAWS.

I.

The election of new members of the Society shall be by vote of the Council. Applications for admission shall be made by the applicant personally, on blanks provided by the Secretary, and shall be endorsed by two members of the Society. Such applications, being received at any meeting of the Council, shall be laid over for action at any subsequent meeting.

II.

1. Persons elected by the Council, as provided in By-Law I, shall be admitted to membership in the Society upon the payment, within sixty days of the date of their election, of an initiation fee of five dollars.

2. The annual dues shall be five dollars, payable on the 1st of January. Each new member shall pay in proportion to the unexpired fraction of the year at the time of his election. Should the annual dues of any member remain unpaid beyond a reasonable time, the Council shall remove his name from the list of members, after due notice.

3. On the payment of fifty dollars in one sum, exclusive of initiation fee, any member may become a life member and shall thereafter be exempt from all annual dues.

III.

The times and places of meetings of the Society shall be designated by the Council, but the Annual Meeting shall be held

on a date between the 26th and 31st of December, inclusive; and Regular Meetings shall be held on the last Saturday of February, April, and October, unless otherwise ordered by the Council. Notice of the time and place of each meeting shall be sent by the Secretary to all members of the Society.

IV.

Whenever it shall appear to the Council that a sufficient number of members of the Society are desirous of conducting in any locality periodic meetings for the reading and discussion of mathematical papers, the Council may authorize the formation of a Section to be composed at each Sectional meeting of such members of the Society as may be present; and the Council shall have the right to withdraw such authorization.

V.

Papers intended for presentation at any meeting or sectional meeting of the Society shall be passed upon in advance of the meeting by a programme committee appointed by or under the authority of the Council; and only such papers shall be presented as shall have been approved by such committee. Papers in form unsuitable for publication, if accepted for presentation, shall be referred to on the programme as preliminary communications or reports.

VI.

1. The order of business at the meetings of the Society shall be as follows:

1. Reading of the minutes.
2. Recommendations and reports.
3. Elections.
4. Miscellaneous business.
5. Presentation and discussion of papers previously approved by the programme committee.

2. No question relative to administration shall be considered at any meeting except the Annual Meeting without the recommendation of the Council.

VII.

It shall be the duty of each President to deliver an address before the Society at the Annual Meeting at which his term of office expires.

VIII.

1. The President may convoke the Council whenever the affairs of the Society require it.

2. A request in writing from two members of the Council shall render the convocation obligatory.

IX.

1. The Society shall publish a periodical of critical and historical nature, called the BULLETIN OF THE AMERICAN MATHEMATICAL SOCIETY.

2. The BULLETIN shall be in charge of the Committee of Publication, which may associate with itself other members of the Society whose editorial assistance it may require.

X.

1. The Society shall publish a periodical which shall have for its object to make known, as widely as possible, the more important researches presented at the meetings of the Society. This periodical shall be called the TRANSACTIONS OF THE AMERICAN MATHEMATICAL SOCIETY.

2. The editorial management of the TRANSACTIONS shall be entrusted to a committee of three editors, to be appointed by the Council. The three members of the committee appointed in 1899 shall serve respectively until 1902, 1903, and 1904. In and after 1902, annually at the February meeting, the Council shall appoint one member to serve for three years. Members of the committee shall be eligible to reappointment. Vacancies in the committee shall be filled by the Council.

3. The editorial committee shall have power to elect one of its members as editor-in-chief; but if at any time the committee shall report to the Council that it has been unable to agree upon an editor-in-chief, the Council shall designate one of the members of the committee to act as editor-in-chief. The committee shall have power to associate with itself other members of the Society whose editorial assistance it may require.

4. The TRANSACTIONS shall not be distributed free to the members of the Society; but members of the Society shall have the right to subscribe to the TRANSACTIONS at three-fourths of the advertised price.

XI.

No by-law shall be enacted, amended or suspended, except by a two-thirds vote of the members present at a meeting of the Society, and upon the recommendation of the Council.

ANNUAL REPORTS.

REPORT OF THE TREASURER FOR THE YEAR 1904.

Receipts.

Balance from 1902	$2,573.07
Annual dues for 1900	5.00
Annual dues for 1901	35.00
Annual dues for 1902	115.00
Annual dues for 1903	290.00
Annual dues for 1904	1,560.00
Dues from new members for parts of the year 1903	9.15
Dues from new members for parts of the year 1904	59.93
Annual dues for 1905	20.00
Initiation fees for 1903	90.00
Initiation fees for 1904	150.00
Life membership fees	350.00
Sale of reprints	17.45
Sale of Bulletin by the Secretary	5.30
Sale of Bulletin by The Macmillan Company	315.00
Contributions in support of the Transactions:	
Bryn Mawr College	100.00
Columbia University	100.00
Harvard University	200.00
Haverford College	100.00
Northwestern University	200.00
University of California	100.00
University of Chicago	100.00
Wesleyan University	100.00
Yale University	200.00
Sale of Transactions by the Treasurer	351.75
Sale of Transactions by The Macmillan Company	331.12
Sale of Transactions by the Secretary	6.62
Interest on deposit in Fifth Avenue Trust Company	17.48
Interest on deposit in Savings Bank	45.51
Exchange	1.23
	$7,548.61

DISBURSEMENTS.

Expenses of the Secretary's Office	$ 179.38
Expenses of the Treasurer's Office	87.98
Expenses of the Library	65.10
Expenses of the Committee of Publication	119.00
Expenses of the Editorial Committee of the TRANSACTIONS	135.34
Publication of BULLETIN (eight numbers)	995.03
Publication of TRANSACTIONS (four numbers)	1,899.16
Annual Register	117.31
Expenses of the Chicago Section	42.73
Expenses of the San Francisco Section	18.50
Exchange	4.80
	$3,664.33
Balance in Fifth Avenue Trust Company $2,211.21	
Balance in Savings Bank 1,673.07	
	$3,884.28
	$7,548.61

The Life Membership Fund now amounts to $1,723.07.

WM. S. DENNETT,
Treasurer.

NEW YORK, December 27, 1904.

REPORT OF THE AUDITING COMMITTEE.

The Committee appointed by the American Mathematical Society to audit the accounts of the Treasurer beg to report as follows:

We have examined the statement of receipts and expenditures for the year extending from December 23, 1903, to December 27, 1904, and we find that there was a balance on December 23, 1903, of twenty-five hundred and seventy-three dollars and seven cents ($2,573.07) and the receipts amounted to forty-nine hundred and seventy-five dollars and fifty-four cents ($4,975.54). The expenditures amounted to thirty-six hundred and sixty-four dollars and thirty-three cents ($3,664.33), leaving at this date a balance of thirty-eight hundred and eighty-four dollars and twenty-eight cents ($3,884.28), of which twenty-two hundred and eleven dollars and twenty-one cents ($2,211.21) is in the Fifth Avenue Trust Company, sixteen hundred and seventy-three dollars and seven cents ($1,673.07) in the Institution for the Savings of Merchants' Clerks.

ARTHUR SCHULTZE,
EDWARD KASNER,
Auditing Committee.

NEW YORK, December 27, 1904.

REPORT OF THE LIBRARIAN FOR THE YEAR 1904.

It is gratifying to be able to announce a satisfactory increase in the library during the past year, in spite of the fact that at the time of the last report we had already reached nearly the maximum as to the possible number of periodicals upon the exchange list. The following table shows the growth of the library during the past three years:

	Jan. 1, 1902.	Jan. 1, 1903.	Jan. 1, 1904.	Jan. 1, 1905.
Volumes of periodicals	32	695	981	1548
Volumes, non-periodical	89	248	354	487
Periodicals on exchange list	64	116	154	155

Among the noteworthy gifts to the library during the year should be mentioned that by Dr. G. W. Hill, of 39 volumes of the *Nouvelles Annales*, that by the St. Petersburg Academy of 48 volumes of the *Bulletin* (with certain lacunæ which we are endeavoring to fill), the missing volumes of the *Acta Mathematica*, 8 volumes of the Dublin Society's *Transactions*, and numerous works donated by Teubner & Co., and Gauthier-Villars & Co.

Members are again invited to consider the suggestion made last year, that gifts of mathematical works, of historic interest as well as of scientific importance, are welcome. In particular, all published works of members of the Society should have a place in our library.

David Eugene Smith,
Librarian.

New York, December 24, 1904.

LIBRARY RULES.

1. Applications for books may be made in person, or by letter addressed to the American Mathematical Society, 501 West 116th Street, New York. Members may, if they desire, apply in person directly to the superintendent of the loaning department of the Columbia University Library, where the Society's library is deposited. Books will be delivered directly to those applying in person, and will be sent to other applicants by express at the expense of the borrowers.

2. A book may be kept four weeks from the date of leaving the

library, but the loan may be renewed from time to time by writing to the Society in advance of the day when the book is due.

3. Borrowers should return the books in person or by prepaid express.

CATALOGUE OF THE LIBRARY.

I. Journals.

In case the Society has already any bound volumes, these are indicated in the list. Where no bound volumes are indicated, the journal has recently been placed upon the exchange list, and only the current unbound numbers are in the library. The journals are listed alphabetically according to the places of publication.

Amsterdam.

Nieuw Archief voor Wiskunde, Ser. 1, Vols. 1–20; Ser. 2, Vols. 1–5.

Revue semestrielle des Publications mathématiques, Vols. 1–12. *Tables des Matières*, 1892–1902.

Wiskundige Opgaven met de Oplossingen, Vols. 1–8.

Baltimore.

American Journal of Mathematics, Vols. 1–26; Index, Vols. 11–20.

Berlin.

Akademie der Wissenschaften, Abhandlungen (selected mathematical memoirs), 1892–94, 1897, 1901, 1903; *Sitzungsberichte*, 1891–1903.

Jahrbuch über die Fortschritte der Mathematik, Vols. 15–32.

Journal für die reine und angewandte Mathematik (Crelle), Vols. 96, 97, 109, 125–127.

Sitzungsberichte der Berliner mathematischen Gesellschaft, Vol. 1.

Unterrichtsblätter für Mathematik und Naturwissenschaften, Vols. 9–10.

Veröffentlichungen d. K. Preus. Geodätischen Instituts, Vols. 1–2, 11.

Bologna.

Il Bolletino di Matematica, Vols. 1–2.

R. Accademia delle Scienze, Memorie, Ser. 5, Vols. 8–9; *Rendiconti, New Series*, Vols. 4–6.

Bordeaux.

Société des Sciences de Bordeaux, Memoires, Ser. 4, Vols. 1–5; Ser. 5, Vols. 1–5; Ser. 6, Vols. 1–3; *Procès-verbaux*, 1894–1903.

Boston.

American Academy of Arts and Sciences, Proceedings, Vols. 26–39; *Memoirs*, Vol. 12.

Technology Quarterly, Vols. 4–16.

Bray-sur-Seine.

Journals des Géométres-Experts, Vols. 1–3, 9, 10–11.

Brisbane, Queensland.

Proceedings of the Royal Society, Vols. 15–18.

BRUSSELS.

Annales de la Société Scientifique, Vols. 26–28.

Annuaire de l'Académie Royale, Vols. 68–70.

Bulletin de Classe des Sciences de l'Académie Royale, 1902–1903.

Mémoires couronnés et autre Mémoires de l'Académie Royale, Vols. 60–66.

Mémoires couronnés et Mémoires des Savants étrangers de l'Académie Royale, Vols. 58–62.

BUCHAREST.

Gazeta Matematica, Vols. 1–9.

BUDAPEST.

Mathematische und naturwissenschaftliche Berichte aus Ungarn, Vols. 1–19.

BUENOS AIRES.

Anales de la Sociedad Cientifica Argentina, Vols. 55–56.

CAMBRIDGE, ENG.

Cambridge Philosophical Society, Proceedings, Vols. 10–12; *Transactions*, Vols. 17–19.

CAMBRIDGE, MASS.

Annals of Mathematics, Ser. 1, Vols. 1–12; Ser. 2, Vols. 1–5.

CHERBOURG.

Mémoires de la Société Nationale des Sciences naturelles et mathématiques de Cherbourg, Vols. 31–32.

CHICAGO.

The Astro-Physical Journal, Vols. 1–20.

The Monist, Vols. 1–7, 9–14.

The Open Court, Vols. 11–17.

School Science.

School Mathematics.

CHRISTIANIA.

Archiv for Mathematik og Naturvidenskab, Vols. 21–25.

Videnskabs-Selskabet i Christiania, Forhandlinger, 1898–1899, 1901–1903; *Skrifter*, 1898–1903.

CITTÀ DI CASTELLO.

Le Matematiche pure ed applicate, Vols. 1–2.

COIMBRA.

Jornal de Sciencias mathematics e astronomicas, Vols. 9–14.

COPENHAGEN.

Nyt Tidsskrift for Matematik, Ser. A, Vols. 11–14; Ser. B, Vol. 14.

CRACOW.

Bulletin International de l'Académie des Sciences de Cracovie, 1901–1903.

Katalog, Literatury Naukowej Polskiej, Vols. 2–3.

DES MOINES.

The Analyst, Vol. 10.

DUBLIN.

Royal Dublin Society, Scientific Proceedings, New Ser., Vols. 1–9; *Scientific Transactions*, Ser. 2, Vols. 1–8; Index to *Proceedings and Transactions*, 1877–1898.

EDINBURGH.

Annals of the Royal Observatory, Vol. 1.

Proceedings of the Mathematical Society of Edinburgh, Vols. 1, 11–22.

Royal Society of Edinburgh, Proceedings, Vols. 3–4, 10–12, 15–24; *Transactions*, Vols. 37–39, 42.

ERLANGEN.
Sitzungsberichte der physicalisch-medicinischen Societät zu Erlangen, Vols. 25–35.

FORT MONROE.
Journal of the United States Artillery, Vols. 1–21.

GHENT.
Mathesis, Ser. 1, Vols. 7–10; Ser. 2, Vols. 1–10; Ser. 3, Vols. 1–3.

GLASGOW.
Proceedings of the Glasgow Philosophical Society, Vol. 30.

GÖTTINGEN.
Akademie der Wissenschaften, Nachrichten math.-phys. Klasse, 1892–1902; *Geschäftliche Mittheilungen*, 1894–1903.

GRENOBLE.
Annales de la Faculté des Sciences de l'Université de Grenoble, Vols. 13–15.

HALIFAX.
Proceedings and Transactions of the Nova Scotia Institute of Sciences, Ser. 2, Vols. 1–2.

HAMBURG. See LEIPZIG.

ITHACA.
Bulletin of the American Physical Society, Vols. 1–2, Vol. 3, No. 1 (last).
Journal of Physical Chemistry, Vols. 1–8.

KASAN.
Bulletin de la Société physico-mathématique de Kasan, Vols. 1–5, 7–13.

KHARKOF.
Communications de la Societé mathématique de Kharkov, Ser. 2, Vols. 5–7.

KIEFF.
University Isvistija, Vol. 43.

LAWRENCE.
Kansas University Quarterly, Ser. A, Vols. 9–10.
Kansas University Science Bulletin, Vol. 1.

LEGHORN.
Periodico di Matematica, Ser. 1, Vols. 2–10; Ser. 2, Vols. 12–18; Ser. 3, Vol. 1.
Supplemento al Periodico di Matematica, Vols. 2–7.

LEIPZIG.
Archiv der Mathematik und Physik, Ser. 3, Vols. 1–7.
Bibliotheca Mathematica, 1887–1903.
Jahresbericht der Deutschen Mathematiker-Vereinigung, Vols. 5–9; New Ser., Vols. 1–2. (2 sets.)
Mathematische Annalen, Vols. 41–43, 45–58.
Mittheilungen der mathematischen Gesellschaft in Hamburg, Vols. 2–3.
Zeitschrift für Mathematik und Physik, Vols. 44–50.
Sächsische Gesellschaft der Wissenschaften, math.-phys. Classe; Abhandlungen, Vols. 25–28; *Berichte*, Vols. 45–55.

Zeitschrift für mathematischen und naturwissenschaftlichen Unterricht, Vols. 23–29.

LEMBERG.
Sammelschrift der mathematisch-naturwissenschaftlichen Section der Sevcenko-Gesellschaft der Wissenschaften, Vol. 9.

LICK OBSERVATORY, MT. HAMILTON.
Lick Observatory Contributions, Vols. 3–5; *Publications*, Vols. 1–6.

LIÉGE.
Mémoires de la Société Royale des Sciences de Liége, Ser. 2, Vols. 19–20; Ser. 3, Vols. 1–5.

LIMA.
Revista de Ciencias, Vols. 1–6.

LIVORNO. See LEGHORN.

LONDON.
Educational Times, 1897–1903.
Journal of the Institute of Actuaries, Vols. 35–38.
Royal Society Philosophical Transactions, Ser. A, Vols. 192–203; *Proceedings*, Vols. 62–73; *Year Book*, Vols. 1–2.
Proceedings of the London Mathematical Society, Vols. 1–35; Ser. 2, Vol. 1; *Index*, Vols. 1–30. *List of Members*, 1865–1899.
Mathematical Gazette, Vols. 1–2.
Messenger of Mathematics, Vols. 6–7, 24–33.
Quarterly Journal of Pure and Applied Mathematics, Vols. 31–35.

MADRID.
Archivo de matematicas, 1896–1897.
Memorias de la Real Academia de Ciencias, Vols. 14, 20.

MANCHESTER.
Memoirs and Proceedings of the Manchester Literary Society, Vols. 37–48.

MARSEILLES.
Annales de la Faculté des Sciences de Marseilles, Vols. 11–12.

MEXICO.
Memorias y Rivista de la Sociedad Cientifica Antonio Alzate, Vols. 2–17.

MILAN.
Annali di Matematica pure ed applicata, Ser. 3, Vols. 2–9.

MONTPELLIER.
Mémoires de l'Académie des Sciences de Montpellier, Ser. 2, Vols. 1–2.

MOSCOW.
Transactions of the Mathematical Society of Moscow, Vols. 1–23; *Index*, Vols. 1–15.
Physico-Mathematical Gazette, Vols. 1, 4–11, 13–22.

MUNICH.
Hochschul-Nachrichten, Vol. 13.

NAPLES.
Accademia delle Scienze fisiche e matematische di Napoli Atti, Ser. 2, Vols. 8–11; *Rendiconti*, Vols. 34–42.

NEW YORK.

Bulletin of the American Mathematical Society, Vols. 1–10; *General Index*, 1891–1904; *Transactions*, Vols. 1–5. (2 sets.)

Bulletin of the New York Mathematical Society, Vols. 1–3. (2 sets.)

Papers and Transactions of the Actuarial Society of America, Vols. 1–7.

Physical Review, Vols. 16–19.

Science, New Ser., Vols. 1–19.

NORTHFIELD.

Astronomy and Astro-physics, 1892–94.

Popular Astronomy, Vols. 10–12.

ODESSA.

Viestnik Opytnoy Fisiki, Vols. 24–25.

PALERMO.

Atti dell' Accademia di Scienze di Palermo, Ser. 3, Vols. 1–6.

Il Pitagora, 1896–1904.

Rendiconti del Circolo matematico di Palermo, Vols. 1–18; *Annuario*, 1898, 1900.

PARIS.

Bulletin des Sciences mathématiques et physiques élémentaires, 1895–1904.

Bulletin de la Société mathématique de France, Vols. 21–31.

Bulletin de la Société philomatique de Paris, New Ser., Vol. 4.

Bulletin des Sciences mathématiques, Vol. 27.

Bureau des Longitudes, Annuaire, 1903–1905.

Comptes rendus de l'Académie des Sciences de Paris, Vols. 136–139.

Journal de Mathématiques pures et appliquées, Ser. 5, Vols. 1–9.

L'Education Mathématique, Vol. 6.

L'Enseignement mathématique, Vols. 4–6.

L'Intermédiaire des mathématiciens, Vols. 1–10.

Nouvelles Annales de Mathématiques, Ser. 1, Vols. 1–20; Ser. 2, Vols. 1–11, 13–19; Ser. 4, Vol. 3.

Revue de l'Institut catholique, Vols. 7–8.

Revue générale des Sciences, Vols. 13–14.

Revue de Mathématiques spéciales, Vols. 13–14.

PAVIA.

Rivista di Fisica, Matematica e Scienze Naturali, Vols. 7–9.

PHILADELPHIA.

American Philosophical Society, Proceedings, Vols. 29–42; *Transactions*, Vol. 20; *List of Surviving Members*, 1892.

PISA.

Annali della Scuola normale superiore, Vols. 1–9.

PRAGUE.

Casopis pro pèstováni mathematiky a fysiky (*Journal of Mathematics and physics*), Vols. 21, 23–25, 27–32, Index to Vols. 1–30.

Jednota českych Mathematikú Sbornik, Vols. 1–7.

Rozpravy Ceské Akademie Césaře Františka Josefa. (The memoirs relating to mathematics only.) Vols. 1–11.

Věstnik Královské Ceské Spolècnosti Náuk (*Proceedings of the Bohemian Academy of Sciences*), 1899–1902; *Bulletin Internationale*, Vols. 7–8.

RALEIGH.
Journal of the Elisha Mitchell Scientific Society, 1892–95.

RENNES.
Travaux Scientifiques de l'Université, Vols. 1–2.

ROME.
Accademia dei Lincei, Rendiconti, Ser. 5, Vols. 1–7, 9–13.
Pontificia Accademia dei Nuovi Lincei, Atti, Vols. 48–57; *Memorie*, Vols. 15–18.
Societa Italiana delle Scienze, Memorie di Matematica e di Fisica, Vol. 12.
Rivista di Artiglieria e Genio, Vols. 1–4, New Ser., Vols. 1–2.

SAN FRANCISCO.
Publications of the Astronomical Society of the Pacific, Vols. 1–15.

SPRINGFIELD, MO.
The American Mathematical Monthly, Vols. 1–10.

ST. LOUIS.
Transactions of the St. Louis Academy of Sciences, Vols. 5–13.

ST. PETERSBURG.
Bulletin de l'Académie des Sciences, 1858–1903.

STOCKHOLM.
Acta Mathematica, Vols. 1–28.

STUTTGART.
Mathematisch-naturwissenschaftliche Mitteilungen, Ser. 1, Vols. 1–5; Ser. 2, Vols. 1–5.
Zeitschrift für Vermessungswesen, Vols. 31–32.

TOKYO.
Sugaku-Butsurigaku Kwai Kiji (*Journal of the Physico-Mathematical Society of Tokyo*), Vols. 1–5, 7–8.

TOULOUSE.
Annales de la Faculté des Sciences de l' Université de Toulouse, Ser. 1, Vols. 6–12; Ser. 2, Vols. 1–5.
Bulletin de l' Académie des Sciences de Toulouse, Vol. 3.
Mémoires de l'Académie des Sciences di Toulouse, Ser. 10, Vols. 1–3.

TURIN.
Reale Accademia di Scienze di Torino, Atti, Vols. 21–39; *Index*, Vols. 21–30; *Memorie*, Ser. 2, Vols. 48–55.
Bulletino di Bibliografia e Storia delle Scienze matematiche, Vols. 5–6.
Formulaire de Mathématiques, Vols. 1–5.
Revue de Mathématiques, 1891–1900.

ULM.
Jahresheft des Vereins für Mathematik und Naturwissenshaften, 1903.

UPSALA.
Universitets Årsskrift, 1901–1902.

VIENNA.
Monatshefte für Mathematik und Physik, Vols. 1–15.
Sitzungsberichte der kaiserlichen Akademie der Wissenschaften in Wien, math.-naturwiss. Classe, Vols. 108–111.

WARSAW.

Travaux de la Société de Naturalists, Imp. Université de Warsaw, Vols. 1–3.

Prace matematyczno-fizyczne, Vols. 1–15.

Tablice Matematyczno-fizyczne, 1904.

Wiadomosci matematyczne, 1897–1903.

WASHINGTON.

Publications of the U. S. Naval Observatory, Ser. 2, Vols. 1–3, 5.

Smithsonian Institution, Reports, 1885–87, 1889–90, 1895–1903.

ZARAGOSSA.

Revista trimestral de Matematics, Vols. 1–3.

ZURICH.

Vierteljahrschrift der naturforschenden Gesellschaft, Vols. 34–48.

II. Books in the Library, Excluding Journals.

(Arranged alphabetically by authors, except in cases of compilations.)

Adelaide. University, Calendar for 1902.

Aix la-Chapelle. Königliche Technische Hochschule. Die Uebergabe des Rektorats am ersten Juli, 1898, Aix, 1898.

Alasia, Cristoford. Calcolo grafico ed applicazioni alla statica grafica, Città di Castello, 1899.

Esercizi ed applicazioni di calcolo infinitesimale ed integrale, Città di Castello, 1898.

I complementi di geometria elementare, Milan, 1903.

La recente geometria del triangolo, Città di Castello, 1900.

Aley, R. J. See Heath.

Amsler, Jakob. Ueber die mechanische Bestimmung des Flächeninhaltes, der statischen Momente und der Trägheitsmomente ebener Figuren, insbesondere über einen neuen Planimeter, Schaffhausen, 1856.

Anderhalden, P. B. Die Aetherhypothesen von Descartes bis Fresnel Inaugural-Dissertation, Sarnen, 1901.

Andoyer, H. Théorie de la lune, 1902.

Andreas, E. Ueber den specifischen Grenzmagnetismus permanenter Stahlmagnete, Berlin, 1897.

Appell, Paul. Traité de mécanique rationnelle, Vol. 3, Paris, 1903.

Notice sur les travaux scientifiques de Paul Appell, Paris, 1892.

Atkinson, E. H. de V. Text-book of practical solid geometry, etc., for use of the Royal military academy, Woolwich, 2d ed., London, 1901.

Autonne, L. Sur le répresentation des courbes gauches algébriques, Paris, 1896.

Sur la théorie des équations différentielles du premier ordre et du premier degré, Paris, 1892.

Sur la décomposition d'une substitution linéaire réelle et orthogonale en un product d'inversions, Paris, 1903.

Bäcklin, G. Om partiela differentialeqvationer af ordningen meden beroende och två oberoende variabler, Dissertation, Upsala, 1890.

Bäcklund, A. V. Bidrag till theorien för vågrörelson i ett gasartadt medium, Stockholm, 1886, 1887, 1888.

En undersökning inom theorien för elektriska strömmarne, Stockholm, 1893–1897.

Om några egenskaper hos den plana kurvan af tredje ordningen, Stockholm, 1871.

Om geometriska kurvor med dubbel krökning, Lund, 1871.

Baker, A. Elementary plane geometry, Boston, 1903.

Baker, A. L. Elements of solid geometry, Boston, 1898.

Barbarin, P. La géométrie non-euclidienne, Paris, 1902.

Barbillion, L. Production et emploi des courants alternatifs, Scientia, No. 11, Paris, 1901.

Bardey, E. Aufgabensammlung. 2nd ed., Leipzig, 1902.

Bardey, E. and Pietzker, F. Anleitung zur Auflösung eingekleideter algebraischer Aufgaben, Leipzig, 1903.

BARTON, S. M. An elementary treatise on the theory of equations, Boston, 1899.

BELFAST. Calendar of Queen's College for 1903–04 and 1904–05.

BEMAN, W. W. and SMITH, D. E. Academic algebra, Boston, 1902.
Elements of algebra, Boston, 1899.
Higher arithmetic, Boston, 1900.
New plane and solid geometry, Boston, 1900.
Plane and solid geometry, Boston, 1898.
See also DEDEKIND; FINK; KLEIN; ROW.

BENDIXSON, I. Volume of mathematical pamphlets, Stockholm, 1891.

BERGSTEDT. Om regelytor af sjette graden, Lund, 1886.

BERNHARD, MAX. Lineare Schaaren von Kurven und Flächen, Stuttgart, 1897.

BIRKENMAJER, L. Marana Króla z przemysla geometrya praktyczna, Warsaw, 1895.

BJERKNES, V. Carl Anton Bjerknes: Gedächtnissrede, Leipzig, 1904.

BJÖRLING, C. F. E. Theori för algebraiska equationers rötter, Dissertation, Stockholm, 1871.

BLAKESLEY, T. H. Geometrical optics, London, 1903.

BLOMQUIST, E. Fineka precissions nivellement, 1892–99, Helsingfors, 1900.

BÖCHER, MAXIME. Regular points of linear differential equations of the second order, Cambridge, 1896.
Ueber die Reihenentwickelungen der Potentialtheorie, with preface by F. Klein, Leipzig, 1894.

BOHLMANN, G. See GENOCCHI, A.

BOOLE, M. E. Lectures on the logic of arithmetic, Oxford, 1903.

BOREL, E. Algébre, Paris, 1903.
Leçons sur les fonctions méromorphes, recueilles et rédigées par L. Zoretti.
Trigonométrie, 2me. Cycle, Paris, 1904.

BOWDITCH, N. See LaPlace.

BOWSER, E. A. College algebra, Boston, 1900.
Treatise on plane and spherical trigonometry and its applications to astronomy and geodesy, Boston, 1898.

BRISTOL. University college calendar for 1902–03 and 1904–05.

BRODEN, T. Funktionentheoretische Bemerkungen und Sätze, Lund, 1897.
Om rotationsystors deformation, Lund, 1886.

BROOKS, E. Philosophy of arithmetic as developed from . . . synthesis, analysis and comparison . . . also a history of arithmetic, Revised edition, Philadelphia, 1901.

BRUN, F. DE. Bidrag till Weierstrass' teori för algebraiska funktioner, Upsala, 1895.

BRUSÜM, AXEL. Studier ofver några funktionalekvationer, Stockholm, 1897.

BUDDEN, E. Elementary pure geometry with mensuration, London, 1904.

BURALI-FORTI, C. Introduction à la géométrie différentielle, suivant la méthode de H. Grassmann, Paris, 1897.
Logica matematica, Milan, 1894.

BYERLY, W. E. Elements of the differential calculus, with examples and applications, Boston, 1880.
Elements of the integral calculus, with a short key to the solution of differential equations and a short table of integrals, Boston, 1898.

CAJORI, F. Teaching and history of mathematics in the United States, Washington, 1890.

CAMBRIDGE (Eng.) Philosophical Society, list of fellows, members and . . . . societies . . . to which the publications of the society are sent, Cambridge, 1901.

CAPELLI, A. Lezioni di algebra complementare, Naples, 1895.

CARDIFF. University College of South Wales, Calendar, 1901–04.

CARLSRUHE. Technische Hochschule. Festgabe zum Jubiläum der vierzigjährigen Regierung seiner Königlichen Hoheit des Grossherzogs Friedrich von Baden, Karlsruhe, 1892.

CARVALLO, E. L'électricité déduite de l'expérience et ramenée au principe des travaux virtuels, Chartres, 1902.

CASSEL, G. Kritiska studier öfver teorin för de automorfa funktionerna jämte deras användning för integration af linjära differentialekvationer, Dissertation, Upsala, 1894.

CASTRO, A. DE. Soluzione grafica della trisezione dell' angolo, Rome, 1899.

CHAILAN, E. Géométrie déscriptive à l'usage des candidats an Baccalaureat, Paris, 1897.

CHAPMAN, C. H. Elementary course in the theory of equations, New York, 1892.

CHAUVENET, W. A treatise on plane and spherical trigonometry, Philadelphia, 1882.

CHEVREL. See FITZ-PATRICK.

CHICAGO. Mathematical papers read at the International Mathematical Congress, 1893, New York, 1896.

CLAIRIN, J. Sur les transformations de Bäcklund, Thèse, Paris, 1902.

CLASSEN, J. Theorie der Elektricität und des Magnetismus. Leipzig, 1903.

COLLINS, J. V. Text-book of algebra through quadratic equations, Chicago, 1901.

COPPONS, M. Examen de la théorie et pratique de M. Necker, dans l'administration des finances de la France, 1785.

COULON, J. Sur l'intégration des équations aux dérivées partielles de second ordre par la méthode de catactéristiques, Thèse, Paris, 1902.

CRIVETZ, T. Essai sur l'equidistant, Bucharest, 1900.

DAVIS, E. W. Introduction to the logic of algebra, New York, 1894.

DAVIS, J. W. Theoretical astronomy; dynamics of the sun, New York, 1901.

DAVISSON, S. C. Ueber die geodätische Linie der Mannigfaltigkeit, Dissertation, Tübingen, 1900.

Décombe, L. La compressibilité des gaz réels. Scientia, Vol. 21, Paris, 1903.

Dedekind, R. Essays on the theory of number, translated by W. W. Beman, Chicago, 1901.

Delagrave, C. M. E. Tables des logarithmes à cinq décimales des nombres naturels de 1 à 10000 et tables des logarithmes à cinq décimales des sinus, cosinus . . . Paris, 1902.

Delaporte, L. J. Thèse présentée a la Faculté des Lettres: essay philosophique sur les géométries non-euclidiennes, Paris, 1903.

Delin, C. Ueber zwei ebene Punktsysteme die algebraisch auf einander bezogen sind, Lund, 1893.

Dickson, L. E. Linear groups with an exposition of the Galois field theory, Leipzig, 1901.
Theory of algebraic equations, New York, 1903.

Dickstein, S. Catalogue des oeuvres imprimées et manuscrites de Hoëne Wronski.
Hoene Wronski jego zycie o prace . . . Cracow, 1896.
Kanony logarytmów Hoene-Wrónski, Warsaw, 1891.
Pojecia i Metody matematyki, Warsaw, 1891.

Diez, Astengo y. La caudratura del circulo; problema resuelto cientificamente, Montevideo, 1898.

Dissertations of members of the American Mathematical Society:
Andrews, G. The primitive double minimal surface of the seventh class and its conjugate, New York, 1900.
Benton, J. R. Abhängigkeit des specifischen Torsionswiderstandes einiger Metalldrähte von der Spannung, Leipzig, 1900.
Benner, H. Bestimmung der Coefficienten welche bei der Berechnung der Integrale

$$\int \frac{x^n dx}{\sqrt{1 + ax + bx^2}} \text{ und } \int \frac{x^n dx}{\sqrt{1 + ax + bx^2 + cx^3}}, \text{ Boston, 1899.}$$

Black, C. W. M. The parametric representation of the neighborhood of a singular point of an analytic surface, Boston, 1902.
Blake, E. M. Method of indeterminate coefficients and exponents applied to differential equations, New York, 1893.
Bliss, G. A. The geodesic lines on the anchor ring, Cambridge, 1902.
Bôcher, M. Ueber die Reihenentwickelungen der Potentialtheorie, Göttingen, 1891.
Bosworth, A. L. Begründung einer vom Parallelenaxiome unabhängigen Streckenrechnung, Göttingen, 1900.
Bouton, C. L. Invariants of the general linear differential equation and their relation to the theory of continuous groups, Baltimore, 1899.
Chittenden, J. B. A presentation of the theory of Hermite's form of Lamé's equation with a determination of the explicit forms in terms of the p function for the case n equal to three, Leipzig, 1893.
Cole, F. N. A contribution to the theory of the general equation of the sixth degree, Baltimore, 1886.

CURTISS, D. R. Binary families in a triply connected region, with especial reference to hypergeometric families, Boston, 1903.

EISENHART, L. P. Infinitesimal deformation of surfaces, Baltimore, 1900.

EMCH, A. Projective groups of perspective collineations in the plane treated synthetically, Lawrence, Kansas, 1896.

FIELD, P. On the forms of unicursal quintic curves, Baltimore, 1904.

FITE, W. B. On metabelian groups, New York, 1902.

FORBES, C. S. The geometry of circles orthogonal to a given sphere, New York, 1904.

GENTRY, R. On the forms of plane quartic curves, New York, 1896.

GUNDERSEN, C. On the content or measure of assemblages of points, New York, 1901.

HANCOCK, H. Sur les systèmes modulaires de Kronecker, Paris, 1901.

HEDRICK, E. R. Ueber den analytischen Character der Lösungen von Differentialgleichungen, Göttingen, 1901.

HOLGATE, T. F. On certain ruled surfaces of the fourth order, Baltimore, 1893.

HUNTINGTON, E. V. Ueber die Grund-Operationen an absoluten und complexen Grössen in geometrischer Behandlung, Braunschweig, 1901.

IVEY, J. N. Ueber die Periodicitätsmoduln der Abelschen Integrale erster Gattung, Berlin, 1901.

KASNER, E. The invariant theory of the inversion group: geometry upon a quartic surface, New York, 1900.

KELLOGG, O. D. Zur Theorie der Integralgleichungen und des Dirichlet'schen Princips, Göttingen, 1902.

KEYSER, C. J. The plane geometry of the point in point space of four dimensions, Baltimore, 1903.

LING, G. H. On the solution of a certain differential equation which presents itself in La Place's kinetic theory of tides, Charlottesville, Va., 1896.

MANCHESTER, J. E. Ueber Singularitäten ebener Kurven, Tübingen, 1899.

MASON, M. Randwertaufgaben bei gewöhnlichen Differentialgleichungen, Göttingen, 1903.

MORITZ, R. E. Generalization of the differentiation process, Baltimore, 1900. Ueber Continuanten und gewisse ihrer Anwendungen im zahlentheoretischen Gebiete, Göttingen, 1902.

NOBLE, C. A. Eine neue Methode in der Variationsrechnung, Göttingen, 1901.

OSGOOD, W. F. Zur Theorie der zum algebraischen Gebilde $y^m = R(x)$ gehörigen Abelschen Funktionen, Göttingen, 1890.

PEIRCE, B. O. Uber die electromotorischen Kräfte von Gaselementen, Leipzig, 1879.

PIERCE, A. B. Classification and properties of dual conical congruences, Zürich, 1903.

PUTNAM, T. M. On the quaternary linear homogeneous group and the ternary linear fractional group, Baltimore, 1901.

RABINOVITCH, I. E. The foundations of the euclidean geometry as viewed from the standpoint of kinematics, New York, 1903.

REYNOLDS, F. G. The viscosity coefficient of air, Salem, Mass., 1904.

RIETZ, H. L. On primitive groups of odd order, Baltimore, 1904.

ROE, E. D. Die Entwickelung der Sylvester'schen Determinate nach Normal-Formen, Leipzig, 1898.

SCHULTZE, A. Ueber die Bewegung der Wärme in einem homogenen rechtwinkligen Parallelepipedon, Kiel, 1887.

SHAW, J. B. Mathematics the science of algorithms, Jacksonville, Ills., 1895.

SKINNER, E. B. On ternary monomial substitution groups of finite order with determinant ± 1, Baltimore, 1902.

SLOCUM, S. E. On the continuity of groups generated by infinitesimal transformations, Boston, 1900.

SNYDER, V. Ueber die linearen Complexe der Lie'schen Kugelgeometrie, Göttingen, 1895.

VAN DER VRIES, J. N. On the multiple points of twisted curves, Boston, 1903.

VAN VLECK, E. B. Zur Kettenbruchentwickelung Lamé'scher und ähnlicher Integrale, Baltimore, 1893.

VIVIAN, R. H. The poles of a right line with respect to a curve of order n, Philadelphia, 1901.

WHITE, W. F. The metric system psychologically considered, Chicago, 1904.

WINSTON, M. F. Ueber den Hermite'schen Fall der Lamé'schen Differentialgleichung, Göttingen, 1897.

WOODS, F. S. Ueber pseudominimal Flächen, Göttingen, 1895.

YOUNG, J. W. On the group of sign $(0, 3; 2, 4, \infty)$ and the functions belonging to it, New York, 1904.

DOUGLAS, W. D. Geometrical problem solved, Orange, 1892.

DUBLIN. International Association for promoting the study of quaternions and allied systems of mathematics, 1901, 1903.

DUBLIN UNIVERSITY. Examination papers, 1901–3. Calendar, 1903–04.

DUPORCQ, E. Compte rendu du 2me Congrès internationale des mathématiciens tenu à Paris, 1900, Paris, 1902.

DURFEE, W. P. Elements of plane trigonometry, Boston, 1901.

EASTON, B. S. The constructive development of group theory, with a bibliography, Philadelphia, 1902.

EDALJĪ, JAMSHEDJĪ. Associated conics, Ahmedabad, 1898.
Reciprocal polygons, Ahmedabad, 1898.
Reciprocally related figures and the principle of continuity, Ahmedabad, 1900.

END, W. Algebraische Untersuchungen über Flächen mit gemeinschaftlicher Curve, Dissertation, München, 1888.

ENRIQUES, F. and FLEISCHER, H. Vorlesungen über projektive Geometrie, Leipzig, 1903.

ERNST, M. Astronomia gwiazd statych, Warsaw, 1897.

ESTANAVE, E. Notice sur un hyperbolographe á liquide, Paris, 1904.

FAA DE BRUNO, F. Traité élémentaire de calcul des erreurs, avec des tables stereotypées, Paris, 1869.

FABER, F. Darstellende Geometrie, 2 parts, 1894.

FAYE, H. A. E. L. Teoria de los errores; tr. del Francés, Mexico, 1888.

FERRELL, J. A. Advanced arithmetic, Topeka, 1901.
Teachers' and students' manual of arithmetic; a guide to the systematic study of problems, Topeka, 1899.

FESTSCHRIFT. Herausg. von der Mathematischen Gesellschaft in Hamburg, 2 Teil, Leipzig, 1890.

FINK, K. Brief history of mathematics, translated by W. W. Beman and D. E. Smith, Chicago, 1900.

FINKEL, B. F. A mathematical solution book, 4th edition, Springfield, Mo., 1902.

FISCHER, V. Vektordifferentiation und Vektorintegration, Leipzig, 1904.

FISHER, G. E. and SCHWATT, I. J. Complete secondary algebra, Philadelphia, 1901.
Elements of algebra with exercises, New York, 1902.
Higher algebra, Philadelphia, 1901.
Rudiments of algebra, Philadelphia, 1901.
School algebra with exercises, Philadelphia, 1899.
Secondary algebra, New York, 1902.

FITZ-PATRICK, J. and CHEVREL, G. Exercises d'arithmétique énoncés et solutions, avec une préface de Jules Tannery, Paris, 1893.

FLEISCHER. See ENRIQUES.

FÖPPL, A. Vorlesungen über technische Mechanik, Leipzig, 1903.

FORSYTH, A. R. Theory of differential equations, Part 3, Cambridge Eng.), 1902.
Theory of functions of a complex variable, Cambridge (Eng.), 1900.

FOUËT, E. A. Leçons élémentaires sur la théorie des fonctions analytiques, 2 parts, Paris, 1902–04.

FREDHOLM, I. Sur les équations de l'équilibre d'un corps solide élastique, Stockholm, 1898.

FRENCH Universities, New Diplomas of, Dole, 1902.

GANTER, H. and RUDIO, F. Die Elemente der analytischen Geometrie, 3d edition, Leipzig, 1897.

GAUSS, C. F. Werke, Vols. 1–6, Göttingen, 1870.

GECK, E. Ueber die singulären Punkte algebraischer Flächen, Dissertation, Tübingen, 1900.

GENOCCHI, A. Differentialrechnung und Grundzüge der Integralrechnung, herausgegeben von G. Peano, Deutsche Uebersetzung von G. Bohlmann und A. Schepp, 2 parts, Leipzig, 1898–99.

GERRISH, C. and WELLS, W. The beginner's algebra, Boston, 1902.

GILLISS, J. M. Catalogue of 16748 southern stars deduced by the United States Naval Observatory from the zone observations made at Santiago de Chile by the U. S. naval astronomical expedition to the southern hemisphere, Washington, 1895.

GLASER, R. Ueber die Minimalflächen, Dissertation, Tübingen, 1891.

GONNESSIAT, F. Recherches sur l'équation personnelle. Paris, 1892.

GOTTINGEN, University, Studienplan für die Kandidaten in Mathematik und Physik, n. d.

GOULD, S. Bibliography on the polemic problem, what is the value of π . . . , Manchester, N. H., 1888.

GOURSAT, E. Cours d'analyse mathématique, Paris, 1902.
Leçons sur l'intégration des équations aux dérivées partielles du premier ordre; faites à la Faculté des Sciences de Paris aux candidats à l'aggrégation, et rédigées par C. Bourlet, Paris, 1891.

GRANE, N. Ueber Kurven mit gleichartigen successiven Developpoiden, Dissertation, Lund, 1894.

GREAT BRITAIN. Science and art department, Report of the examiner on the results of the examination in elementary practical mathematics held on May 17, 1899, London, 1899.

GREEN, GEORGE. Mathematical papers, Paris, 1903.

GROAT, B. F. Seven lessons in theory of inversions of order and determinants, Minneapolis, 1902.
Summation of differences of a function, Minneapolis, 1902.

GRÖNWALL, H. Om system af linëara totala differential-ekvationer. Upsala, 1898.

GROSS, W. Die Berechnung der Schusstafeln, Leipzig, 1901.

GRÜNBERG, V. Mikroskopische Bildererzeugung, Leipzig, 1903.

GUTZMER, A. Geschichte der Deutschen Mathematiker-Vereinigung, Leipzig, 1904.

HADAMARD, J. La série de Taylor et son prolongement analytique, Evreux, 1901.

HAGEN, J. G. Synopsis der höheren Mathematik, Berlin, 1889–94.

HAID, M. Die modernen Ziele der Erdmessung, Karlsruhe, 1901.
Ueber Gestalt und Bewegung der Erde, Karlsruhe, 1894.

HALLGREN, E. Om beräkningen af Abelska integralers omvändning, Göteborg, 1894.

HALSTED, G. B. Metrical geometry; an elementary treatise on mensuration, Boston, 1900.
See LOBACHEVSKY.

HANCOCK, H. Lectures on the theory of maxima and minima of functions of several variables, Cincinnati, 1903.

HARDY, A. S. Elements of analytic geometry, Boston, 1899.
Elements of quaternions, Boston, 1895.
Elements of the differential and integral calculus; method of rates, Boston, 1901.

HARKNESS, W. Solar parallax and its related constants, including the figure and density of the earth, Washington, 1891.

HEATH'S Mathematical Monographs (in one volume). Ruppert, W. W., Famous geometrical theorems and problems with their history; Milner, F., On teaching geometry; Aley, R. J., Graphs. Boston, 1900–1902.

HELSINGFORS. Polytekniska institutet i Finland, 1849–1899, Helsingfors, 1899.

HERTING, G. Ueber die gestaltlichen Verhältnisse der Flächen dritter Ordnung und ihrer parabolischen Kurven, Dissertation, Augsburg, 1887.

HEUMAN, C. Operationsteoretisk framställning af teorien för finita för flyttningar, Stockholm, 1899.

HEUSCH, F. DE. Cours d'analyse, Calcul différentiel, Bruxelles, 1898.

HOLMAN, S. W. Discussion of the precision of measurements, with examples . . . from physics and electrical engineering, New York, 1892.

HOLMQUIST, B. Ueber Beziehungen zwischen binären und ternären Formensystemen, Dissertation, Lund, 1898.

HOPKINS, G. I. Manual of plane geometry on the heuristic plan, with . . . theorems and problems for advance work, Boston, 1901.

INDEX du Répertoire bibliographique des sciences mathématiques, Paris, 1893.

INTERNATIONAL geodetic association, Comptes-rendus des séances de la treizième conférence générale à Paris, 1900, et de la quartorzième conférence à Copenhague, 1903, rédigés par H. J. van de Sande Bakhuyzen, Berlin, 1901.

IONESCU, I. Mathematical monographs, five in one Vol., Bucharest, 1895–1900.

ISELY, L., JR. Histoire des sciences mathématiques dans la suisse française, Neuchatel, 1901.

JABLONSKI, M. E. Théorie des équations suite aux compléments d'algèbre avec de nombreux exercices, Paris, 1891.

JACOBI, C. G. J. Gesammelte Werke, Vols. 1–2, Berlin, 1881.

JACCOTTET, C. Ueber die allgemeine Reihenentwickelungen der Potentialfunktion nach Lamé'schen Produkten, Göttingen, 1895.

JAROLIMEK, V. Deskiptivinî geometrie pro vyšši školy realné; vydáni čtvrte dle nové osnovy zpracované, Praze, 1900.

Geometrie pro nižsî třidy škol realných; vydání čturté dle nové osnovy upravené, Praze, 1901.

JOHNSON, W. W. Curve tracing in cartesian coördinates, New York, 1884.

Elementary treatise on the integral calculus founded on the method of rates or fluxions, New York, 1887.

See RICE.

JUNKER, F. Ueber algebraische Korrespondenzen, Dissertation, Tübingen, 1889.

KAZAN UNIVERSITY, Celebration at the Imperial Kazan University; centennial festival of the birth of N. I. Lobachevsky, Kazan, 1894.

KELSO, O. L. Arithmetic for high schools, academies, and normal schools, New York, 1903.

KIJLSTRA, A. Ruimtebeschouwingen in verband met den Pascalschen zeshoek, Helder, 1903.

KIMURA, S. Lectures on quaternions. Tokio, 1904.

KLAUSENBURG. Johannis Bolyai in Memoriam, 1902.

KLEIN, F. Famous problems of elementary geometry, translated by W. W. Beman and D. E. Smith, Boston, 1897.

On Riemann's theory of algebraic functions and their integrals, translated by Francis Hardcastle, Cambridge (Eng.), 1893.

Anwendung der Differential und Integralrechnung auf Geometrie, eine Revision der Principien. Vorlesung . . . , ausgearbeitet von Conrad Müller, Leipzig, 1902.

Ueber eine Zeitgemässe Umgestaltung des mathematischen Unterrechts an den höheren Schulen, Leipzig, 1904.

KNOTT, C. G. and MACKAY, J. S. Practical mathematics, new edition, Edinburgh, 1903.

KOCH, H. Sur une application des déterminants infinis à la théorie des équations fonctionelles, Stockholm, 1899.

KOLOUSEK, J. Mathematická theorie duchodu Jistych a Piyček annutauch, Prague, 1904.

KOMMERELL, K. Die Krümmung der zweidimensionalen Gebilde im ebenen Raum von vier Dimensionen, Tübingen, 1897.

KOHLRAUSCH, F. Lehrbuch der praktischen Physik, Leipzig, 1901.

KÖSTLIN, W. Ueber Singularitäten ebener algebraischer Curven, Dissertation, Dresden, 1895.

KURTEN, L. Ett problem angående kröningslinjerna på andra gradens ytor löst med till hjälp af paraboliska och elliptiska koordinater och elliptiska funktioner, Dissertation, Helsingfors, 1893.

LACHLAN, R. Elementary treatise on modern pure geometry, London, 1893.

LAGRANGE, J. L. Lectures on elementary mathematics, translated by T. J. McCormack, Chicago, 1901.

LAMPE, E. Die Entwickelung der Mathematik im Zusammenhange mit der Ausbreitung der Kultur, Berlin, 1893.

LANE, A. Adjustments of the compass, transit and level, Boston, 1886.

LAPLACE, MARQUIS DE. Mécanique céleste. Translated by N. Bowditch. 4 vols., Boston, 1829–39.

LASKA, V. Vyšší geodesie, Prague, 1896.

LAURIN, P. Sur la transformation isogonale définie par une fonction rationelle, Dissertation, Lund, 1887.

LAZZERI, G. Manuale de trigonometria piana, Livorno, 1901.
Sulla rappresentazione piana, Livorno, 1901.
Manuale de trigonometria sferica, Livorno, 1901.

LEBON, E. Géométrie déscriptive et géométrie cotée, Paris, 1903.

LEMOINE, E. M. H. Géométrographie, Paris, 1902.

LÉPINAY, M. DE. Franges d'interférence, Paris, 1902.

LE VAVASSEUR, R. Enumération des groupes d'opérations d'ordre donné, Paris, n. d.

LEVI-CIVITA, T. Sul campo elettromagnetico generato della traslazione uniforme die una garica elettrica, Pisa, 1903.

LIE, S. See SCHEFFERS, G.

LINDELÖF, E. Sur les systèmes complets et le calcul des invariants différentiels des groupes continus finis, Dissertation, Helsingfors, 1893.

LJUNGH, A. T. Ueber isoptische und orthoptische Kurven, Dissertation, Lund, 1895.

LOBACHEVSKY, N. I. Geometrical researches on the theory of parallels; transl. by G. B. Halsted, Austin, 1891.

LONDON. International catalogue of scientific literature, A, mathematics, 1902.

LORIA, G. Le transfigurazioni di una scienza, e donne matematiche, 2d ed., Mantova, 1902.

LOVE, A. E. H. Treatise on the mathematical treatise of elasticity, Cambridge (Eng.), 1892.

LOVE, J. L. Differential and integral calculus, Cambridge, Mass., 1899.

LUDWIG, W. Projective Untersuchungen über die Kreisverwandtschaften der nichteuklidischen Geometrie, Karlsruhe, 1904.

MCAULEY, A. Octonions: a development of Clifford's biquaternions, Cambridge (Eng.), 1898.

MCMAHON, J. Elementary plane geometry, New York, 1903.

MACFARLANE, A. Bibliography of quaternions and allied systems of mathematics, Dublin, 1904.

MACH, E. Popular scientific lectures, Chicago, 1898.

MACKAY, J. S. See KNOTT, C. G.

MAJOCCHI, G. Una linea retta punteggiata, Milan, 2d ed., 1903.

MALMBORG, M. Om integrationen af en klass af lineära differentialekvationer med dubbelperiodiska koefficienter, analog med de S. K. Hermite'ska differentialekvationerna, Dissertation, Upsala, 1897.

MANGOLDT, H. K. E. Bilder aus der Entwickelung der reinen und angewandten Mathematik während des neunzehten Jahrhunderts. Festrede der Königlichen technischen Hochschule zu Aachen 1900, Aachen, 1900.

MANNING, H. P. Non-euclidean geometry, Boston, 1901.

MASCHERONI, L. La geometria del compasso, new ed., Pavia, 1901.

MENDIZÁBAL Y TAMBORREL J. DE. Algebra elemental, 2d ed., Mexico, 1898.

Arithmetica elemental, 2d ed., Mexico, 1897.

Tablas de multiplicar, Mexico, 1903.

Tratado de matemática, Mexico, n. d.

MICHIGAN MINING SCHOOL, Catalogues, 1890–94. Reports of the director, 1890–92, Lansing, 1893.

MILNER, F. See HEATH.

MINER, G. W. See MOORE, J. H.

MONTCHEUIL, M. DE. Sur une classe de surfaces, Thèse, Paris, 1902.

MONTREAL, McGill University, Calendar, 1903.

MOORE, J. H. and MINER, G. W. Manual of accounting and business practice, Boston, 1902.

Teachers' manual to Manual of business practice, Boston, 1903.

MOUTIER, P. Essai sur l'organisation rationnelle de la compatibilité à parties doubles, Rouen, 1899.

MUKHOPADHYAY, A. Elementary treatise on the geometry of conics, London, 1893.

NÉCULCÉA, E. Le phénomène de Kerr et les phénomènes électro-optiques (Scientia, No. 16), Paris, 1902.

NETTO, E. Combinatorik, Leipzig, 1901.

NICHOLS, E. W. Analytic geometry for colleges, universities and technical schools, Boston, 1900.

Differential and integral calculus with applications; for colleges, unversities and technical schools, Boston, 1900.

NILSSON, G. Sur les équations fonctionnelles, Upsala, 1899.

OLTRAMARE, G. Calcul de généralisation, Paris, 1899.

OSBORNE, G. A. Differential and integral calculus, Boston, 1901.

OSGOOD, W. F. Introduction to infinite series, Cambridge, Mass., 1897.
Introduction to infinite series, 2d ed., Cambridge, 1902.

PASCAL, E. Eugenio Beltrami; discorso letto al Reale instituto Lombardo di scienze e lettere, Milan, 1901.

PEANO, G. Notations de logique mathématique, introduction au formulaire de mathématique publié par la "Rivista di matematica," Turin, 1894.

PEIRCE, B. An elementary treatise on plane and spherical trigonometry, Boston and Cambridge, 1861.
Linear associative algebra, New York, 1882.
Physical and celestial mechanics, developed in four systems of analytic mechanics, celestial mechanics, potential physics and analytic morphology, Boston, 1855.

PEIRCE, B. O. Elements of the theory of the Newtonian potential function, Boston, 1886.

PEIRCE, J. M. The elements of logarithms, Boston, 1874.

PIETZKER, F. See BARDEY, E.

PLACE, J. F. Continuous power the natural result of converting heat into work in an insulated expansion engine, New York, 1903.

POLIS, P. Die Strömungen der Luft in den barometrischen Minima und Maxima; ein Beitrag zur Theorie der Cyklonen und Anticyklonen, Dissertation, Hamburg, 1899.

PORTA, F. Discussioni delle equazioni generali delle coniche e delle quadriche in coördinate cartesiane, Turin, 1893.

PRAGER TYCHONIANA. 5 pamphlets relating to Tycho Brahe, Prague, 1901–1902.

PRESSLAND, A. J. and TWEEDIE, C. Elementary trigonometry, Edinburgh, 1900.

PRICE, B. A treatise on infinitesimal calculus, Vols. 1–4, Oxford, 1857.

PURYEAR, CHAS. See TAYLOR, T. U.

RAFFY, L. See ROBIN, G.

RAOULT, F. M. Cryascopie, Paris, 1901.

REYNOLDS, O. The sub-mechanics of the universe, Cambridge, Eng., 1903.

RICE, J. M. and JOHNSON, W. W. Elementary treatise on the differential calculus founded on the method of rates or fluxions, New York, 1879.

RIDDEL, J. Practical plane and solid geometry, Edinburgh, 1899.

RIPERT, L. La dualité et l'homographie dans le triangle et le tetraèdre, Paris, 1898.

ROBBINS, E. R. and SOMERVILLE, F. H. Exercises in Algebra, New York, 1904.

ROBERTS, R. A. Treatise on the integral calculus, Dublin, 1887.

ROBIN, G. Oeuvres scientifiques, reunies et publiées par L. Raffy, vol. 1: Théorie nouvelle des fonctions, Paris, 1903.

ROW, T. S. Geometric exercises in paper folding, edited and revised by W. W. Beman and D. E. Smith, Chicago, 1901.

RUDIO, F. Die analytische Geometrie des Raumes, 2d edition, Leipzig, 1899.
See also GANTER, H.

RUPERT, W. W. See HEATH.

RUSSELL, J. W. Elementary treatise on pure geometry, with numerous examples, Oxford, 1893.

RYDBERG, J. R. Konstruktioner af kägelsnitt i 3-och 4-punktskontakt, Dissertation, Lund, 1879.

SANDERS, A. Elements of plane and solid geometry, New York, 1903.

SAPOLSKY, L. Relativ-Abel'sche cubische Zahlkörper.

SAUERBECK, P. J. Ueber die Raumkurve VI. Ordnung mit vier wirklichen Doppelpunkten, Dissertation, Tübingen, 1889.

SCHEFFERS, G. Sophus Lie Vorlesungen über continuierliche Gruppen, Leipzig, 1893.

SCHEPP, A. See GENOCCHI, A., VERONESE, G.

SCHILLING, M. Catalog mathematischer Modelle, Halle, 1903.

SCHLOTKE, J. Darstellende Geometrie, part I, 1900.

SCHMIDT, W. Heron of Alexandria, Leipzig, 1899.

SCHRÖDER, J. F. L. Elementa matheseos purae, Vols. 1, 2, Rhenum, 1831.

SCHUBERT, H. Elementare Berechnung der Logarithmen, Leipzig, 1903.
Mathematical essays and recreations; translated from the German by T. J. McCormack, Chicago, 1898.

SCHÜLKE, A. Aufgaben-Sammlung aus der Arithmetik, Geometrie, Trigonometrie und Stereometrie, Leipzig, 1902.

SCHULTZE, A. and SEVENOAK, F. L. Plane and solid geometry, New York, 1901.

SCHUSTER, M. Trigonometrie, Leipzig, 1903.

SCHWATT. Contributions to the geometry of the triangle, Philadelphia, 1897.
See FISHER.

SEE, T. J. Researches on the evolution of the stellar systems, Lynn, 1896.

SÉGUIER, J. DE. Eléments de la théorie des groupes abstraits, Paris, 1904.

SELLENTHIN, B. Mathematischer Leitfaden mit besonderer Berücksichtigung der Navigation, Leipzig, 1902.

SEYDLER, A. Základové theoretické fysiky, Prague, 1895.

SMITH, D. E. Grammar school arithmetic, primary arithmetic, grammar school algebra.
Teaching of elementary mathematics, New York, 1901.
See also BEMAN; FINK; KLEIN; ROW.

SMITH, P. F. Elementary calculus, New York, 1902, 2d ed., 1903.

SMITH, W. B. Infinitesimal analysis, New York, 1898.

SNYDER, V. and HUTCHINSON, J. I. Differential and integral calculus, New York, 1902.

SŎLÍN, J. Theorie plnostěnnych nosníků obloukových o dvou opěrách, Prague, 1892.

SOMMER, J. Ueber die Bestimmung ausgezeichneter Punktgruppen auf Kurven, Dissertation, Tübingen, 1898.

SOMERVILLE, F. H. See ROBBINS, E. R.

SQUIER, G. O. Electro-chemical effects due to magnetization, 1893.

STEINER, G. F. Ueber die katakaustiken algebraischen ebenen Curven, Lund, 1896.

STROUHAL. See PRAGUE.

STUDNICKA. See PRAGUE.

STUDY, E. Geometrie der Dynamen, Leipzig, 1903.

SYDNEY. Calendar of the University of Sydney, 1903–04.

TAFTL, E., Algebra. pro vyšši třídy středních. škol českých páté vydání pro gymnasia, Praze, 1901.

TAYLOR, D. W. Resistance of ships, New York, 1893.

TAYLOR, J. M. An academic algebra, Boston, 1893.
A college algebra, Boston, 1889.
Elements of algebra, Boston, 1900.
Elements of the differential and integral calculus, Boston, 1897; rev. ed., Boston, 1901.

TAYLOR, T. U. and PURYEAR, C. The elements of plane and spherical trigonometry, Boston, 1902.

TEICHMÜLLER, J. Die elektrischen Gleichstromleitungen mit Rücksicht auf ihre Elastizität, Stuttgart, 1898.

TEIXEIRA, F. G. Obras sobre mathematica, Vol. I., Coimbra, 1904.

TEUBNER, B. G. Verzeichnis des Verlags von B. G. Teubner in Leipzig auf dem Gebiete der Mathematik, der technischen und Naturwissenschaften nebst Grenzgebieten, Leipzig, 1904.

TISELIUS, H. A. Om dödlighets-, premie- och vinstberäkningar inom lifförsäkringsteorien, Stockholm, 1893.

TORONTO UNIVERSITY. Examination papers for 1901, Toronto, 1901.
Mathematical and physical society, papers read before the society during the years, 1890–92, Toronto, 1891.

TURIN UNIVERSITY. Osservatorio, Osservazioni meteorologiche fatte . . . calcolate dal . . . Luigi Carnera, Turin, 1901.

TWEEDIE, C. See PRESSLAND, A. J.

VASILIÉV, A. P. L. Tchebychev und seine wissenschaftenlichen Leistungen, Leipzig, 1900.

VERONESE, G. Grundzüge der Geometrie, translated by A. Schepp, Leipzig, 1894.

VIVANTE, G. Leçons elémentaires sur la théorie des groupes de transformations, traduites par A. Boulanger, Paris, 1904.

VOGT, H. Eléments de mathématiques supérieures, Paris, 1901.

WALKER, G. T. Aberration and the electromagnetic field, Cambridge, 1900.

WAND, J. Die Principien der mathematischen Physik und die Potentialtheorie, Leipzig, 1871.

WELLS, W. College algebra, Boston, 1899.
Essentials of algebra for secondary schools, Boston, 1901.
Essentials of geometry, Boston, 1899.
New higher algebra, Boston, 1899.
New plane and spherical trigonometry, Boston, 1900.
Six place logarithmic tables with a table of natural sines, cosines, tangents and cotangents, Boston, 1900.
See GERRISH, C.

WENTWORTH, G. A. Advanced arithmetic, Boston, 1901.
Practical arithmetic, Boston, 1901.

College algebra, Boston, 1901.
College algebra, revised, Boston, 1902.
Higher algebra, Boston, 1901.
New school algebra, Boston, 1901.
Plane and spherical trigonometry and tables, Boston, 1901.
Plane and solid geometry, Boston, 1901.

WEYR, E. Pocet differencialny, Praze, 1902.
Projektivná geometrie. Útvaru prvního radu, Praze, 1898.

WILLEBRAND, K. R. VON. Studier öfver hydraulikens Teorier, Helsingfors, 1902.

WIMAN, A. Klassifikation af regelytorna af sjette graden, Lund, 1892.

WINTERHALTER, A. G. International astrophotographic congress and a visit to certain European observatories and other institutions, Washington, 1889.

ZIWET, A. Elementary treatise on theoretical mechanics, New York, 1893.

ZORETTI, L. See BOREL, E.

AMERICAN MATHEMATICAL SOCIETY

Organized as the New York Mathematical Society, November, 1888
Reorganized as the American Mathematical Society, July, 1894

ANNUAL REGISTER

JANUARY, 1906

NEW YORK:
PUBLISHED BY THE SOCIETY
501 WEST 116TH STREET
1906

PRESS OF
THE NEW ERA PRINTING COMPANY
LANCASTER, PA.

DIRECTORY

Offices of the Secretary, Librarian, and Committee of Publication.
501 West 116th Street, New York, N. Y.

Office of the Treasurer,
8 East 49th Street, New York, N. Y.

Secretary of the Chicago Section,
H. E. SLAUGHT, *University of Chicago, Chicago, Ill.*

Secretary of the San Francisco Section,
G. A. MILLER, *Stanford University, Cal.*

Assistant Secretary of the Society,
W. H. BUSSEY, *501 West 116th Street, New York, N. Y.*

Changes of address should be immediately communicated to the Secretary for entry in the mailing lists of the Society.

Membership dues should be remitted to Dr. W. S. DENNETT, Treasurer, 8 East 49th Street, New York, N. Y., by draft or money order, drawn payable to the AMERICAN MATHEMATICAL SOCIETY.

The following dates have been fixed for the meeting of the Society during the year 1906:

Saturday, February 24, Saturday, October 27.
Saturday, April 28,

The Annual Meeting of the Society for the election of officers will be held in the last week of December.

Meetings of the Chicago Section will be held in April and during the Christmas holidays. The San Francisco Section will meet on February 24 and September 29.

Papers intended for presentation at any meeting or sectional meeting of the Society should be sent to the Secretary or Secretary of the Section in advance of the meeting for submission to the Programme Committee, and should be accompanied by an abstract suitable for publication in the BULLETIN, and a statement of the time required for presentation. Blanks for the entry of abstracts will be furnished by the Secretaries, on application.

PUBLICATIONS

Transactions

of the

American Mathematical Society

EDITED BY

ELIAKIM HASTINGS MOORE,
ERNEST WILLIAM BROWN, EDWARD BURR VAN VLECK,

with the coöperation of

HENRY SEELY WHITE, C. L. BOUTON,
L. E. DICKSON, J. I. HUTCHINSON,
EDWARD KASNER, E. B. WILSON.

Published quarterly by the Society with the support of

YALE UNIVERSITY, NORTHWESTERN UNIVERSITY,
COLUMBIA UNIVERSITY, CORNELL UNIVERSITY,
WESLEYAN UNIVERSITY, THE UNIVERSITY OF CALIFORNIA,
HAVERFORD COLLEGE, STANFORD UNIVERSITY,
THE UNIVERSITY OF MISSOURI, THE UNIVERSITY OF CHICAGO.

The TRANSACTIONS is devoted primarily to research in pure and applied mathematics, and is the official organ of the Society for the publication of important original papers read before it. The first number appeared in January, 1900.

Publication Agents, The Macmillan Company, 66 Fifth Avenue, New York, N. Y. Subscription price $5.00 per annum; to members of the Society $3.75 per annum. Members' subscriptions should be sent to the Treasurer of the Society.

PUBLICATIONS

Bulletin of the American Mathematical Society

CONTINUATION OF THE BULLETIN OF THE NEW YORK MATHEMATICAL SOCIETY.

A HISTORICAL AND CRITICAL REVIEW OF MATHEMATICAL SCIENCE.

EDITED BY

F. N. COLE, ALEXANDER ZIWET, DAVID EUGENE SMITH,
FRANK MORLEY, VIRGIL SNYDER,
H. S. WHITE.

The BULLETIN contains a large number of critical reviews of mathematical treatises and text-books, a complete monthly list of new mathematical publications, notes on current events in the mathematical world, addresses before mathematical bodies, reports on progress in various branches of the science, reports of the meetings of the Society and of other mathematical societies and congresses, and many short original articles.

Published for the Society by the Macmillan Company, 66 Fifth Avenue, New York, N. Y. Issued monthly, except August and September. Sent free to members of the Society. Subscription price to non-members $5.00. Members of the Society are entitled to receive back volumes of the present Series to complete their sets at $4.00 per volume, so far as the supply permits. A member connected with an educational institution may order the current volume for its library at $2.50

Books for review and manuscripts intended for publication in the BULLETIN should be sent to one of the members of the Committee of Publication. Subscriptions to the BULLETIN and orders for back numbers should be addressed to The Macmillan Company.

PUBLICATIONS

Published Papers. Vol. I

MATHEMATICAL PAPERS READ AT THE INTERNATIONAL MATHEMATICAL CONGRESS HELD IN CONNECTION WITH THE WORLD'S COLUMBIAN EXPOSITION, CHICAGO, 1893.

EDITED BY THE COMMITTEE OF THE CONGRESS:

E. HASTINGS MOORE, OSKAR BOLZA, HEINRICH MASCHKE, HENRY S. WHITE.

Containing papers by Bolza, Burkhart, Capelli, Cole, Dyck, Echols, Eddy, Fricke, Halsted, Heffter, Hermite, Hilbert, Hurwitz, Klein, Krause, Lemoine, Lerch, Macfarlane, Martin, Maschke, Meyer, Minkowski, Moore, Netto, Noether, D'Ocagne, Paladini, de Perott, Pervouchine, Pincherle, Pringsheim, Sawin, Schlegel, Schoenflies, Stringham, Study, Taber, Weber, Weyr.

Published for the Society by The Macmillan Company, 1896. 8vo, pp. 411. Price, $4.00; to members of the Society, $3.00.

PUBLICATIONS

The Boston Colloquium Lectures on Mathematics

Delivered from September 2 to 5, 1903, Before Members of the American Mathematical Society in Connection with the Summer Meeting Held at the Massachusetts Institute of Technology, Boston, Mass.

I. Linear Systems of Curves on Algebraic Surfaces.
By Henry S. White.

II. Forms of Non-Euclidean Space.
By Frederick S. Woods.

III. Selected Topics in the Theory of Divergent Series and of Continued Fractions.
By Edward B. Van Vleck.

Published for the Society by The Macmillan Company, 1905. 8vo, pp. 175 + v. Price, $2.00 ; to members of the Society, $1.50.

OFFICERS PAST AND PRESENT

PRESIDENT.

J. H. Van Amringe,	1888–1890,	R. S. Woodward,	1898–1900,
Emory McClintock,	1890–1894,	Eliakim H. Moore,	1900–1902,
G. W. Hill,	1894–1896,	Thomas S. Fiske,	1902–1904,
Simon Newcomb,	1896–1898,	W. F. Osgood,	1904– .

VICE-PRESIDENTS.

Emory McClintock,	1889–1890,	Maxime Bôcher,	1901–1902,
J. K. Rees,	1890–1891,	Frank Morley,	1901–1902,
Henry B. Fine,	1891–1893,	W. F. Osgood,	1902–1903,
G. W. Hill,	1893–1894,	Alexander Ziwet,	1902–1903,
Hubert A. Newton,	1894–1896,	Oskar Bolza,	1903–1904,
R. S. Woodward,	1896–1898,	J. M. Van Vleck,	1903–1904,
Eliakim H. Moore,	1897–1900,	E. W. Brown,	1904–1905,
Thomas S. Fiske,	1898–1901,	James Pierpont,	1904–1905,
Henry S. White,	1900–1901,	Charlotte A. Scott,	1905– ,

Irving Stringham, 1905– .

SECRETARY.

Thomas S. Fiske,	1888–1895,	F. N. Cole,	1895– .

TREASURER.

Harold Jacoby,	1891–1894,	Harold Jacoby,	1896–1899,
R. S. Woodward,	1894–1896,	W. S. Dennett,	1899– .

LIBRARIAN.

D. A. Murray,	1892–1893,	Edward L. Stabler,	1894–1895,
Gustave Legras,	1893–1894,	Pomeroy Ladue,	1895–1901,

D. E. Smith, 1901– .

COMMITTEE OF PUBLICATION.

Thomas S. Fiske,	1891–1899,	Frank Morley,	1894–1898,
Harold Jacoby,	1891–1893,	F. N. Cole,	1898– ,
Alexander Ziwet,	1893– ,	Frank Morley,	1899–1902,

D. E. Smith, 1902– .

MEMBERS OF THE COUNCIL

1906

OFFICERS.

W. F. OSGOOD, *President.*
CHARLOTTE A. SCOTT, } *Vice-Presidents.*
IRVING STRINGHAM, }
F. N. COLE, *Secretary.*
W. S. DENNETT, *Treasurer.*
D. E. SMITH, *Librarian.*
F. N. COLE, }
ALEXANDER ZIWET, } *Committee of Publication.*
D. E. SMITH, }

EX-PRESIDENTS.

J. H. VAN AMRINGE, EMORY MCCLINTOCK, G. W. HILL,
SIMON NEWCOMB, R. S. WOODWARD, E. H. MOORE,
T. S. FISKE.

OTHER MEMBERS.

To Serve until December, 1906.

MAXIME BÔCHER, M. B. PORTER,
FLORIAN CAJORI, J. H. TANNER.

To Serve until December, 1907.

E. R. HEDRICK, E. O. LOVETT,
T. F. HOLGATE, L. A. WAIT.

To Serve until December, 1908.

C. L. BOUTON, EDWARD KASNER,
L. E. DICKSON, E. J. TOWNSEND.

MEMBERS OF THE SOCIETY.

JANUARY 1, 1906.

Life members are designated by *.

Date of Admission.		
1892,	Nov.	ABBE, CLEVELAND, B.A., B.Sc., M.A., Ph.D., LL.D.; Member of the National Academy of Sciences; Member of the Astronomische Gesellschaft; F.R.A.S.; Member of the Deutsche Mathematiker-Vereinigung; Editor of the *Monthly Weather Review;* Associate Editor of *Beiträge zur Physik der Atmosphäre;* Professor of Meteorology, U. S. Weather Bureau; Professor of Meteorology, George Washington University, Washington, D. C.; Lecturer in Meteorology, Johns Hopkins University, Baltimore, Md. *U. S. Weather Bureau,* Washington, D. C.
1905,	Oct.	AKERS, OSCAR PERRY, M.A., Ph.D. (Cornell); Assistant Professor of Mathematics, Allegheny College, Meadville, Pa.
1891,	Nov.	ALEY, ROBERT JUDSON, M.A., Ph.D. (Pennsylvania); Member of the London Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Member of the Edinburgh Mathematical Society; Editor of the *Educator-Journal;* Professor of Mathematics, University of Indiana, Bloomington, Ind. *205 Forest Place.*
1901,	Dec.	ALLARDICE, ROBERT EDGAR, M.A.; Fellow of the Royal Society of Edinburgh; Member of the Edinburgh Mathematical Society; Professor of Mathematics, Stanford University, Cal.
1897,	Dec.	ALLEN, JOSEPH, M.A.; Instructor in Mathematics, College of the City of New York. *162 East 79th Street,* New York, N. Y.
1905,	Oct.	ALLEN, REGINALD BRYANT, B.Sc., M.Sc., Ph.D. (Clark); Instructor in Mathematics, Clark University, Worcester, Mass.
1903,	Oct.	AMES, LEWIS DARWIN, M.A., Ph.D. (Harvard); Instructor in Mathematics, University of Missouri, Columbia, Mo. *1501 Windsor Street.*

Date of Admission.		
1901,	Dec.	ANDREWS, GRACE, B.Sc., Ph.D. (Columbia). *"The Brevoort," 47 Brevoort Place*, Brooklyn, N. Y.
1903,	Oct.	ARCHIBALD, RAYMOND CLARE, M.A., Ph.D. (Strassburg); Professor of Mathematics, Mount Allison Ladies' College, Sackville, New Brunswick, Canada. *P. O. Box 122.*
1901,	Oct.	ASHTON, CHARLES HAMILTON, M.A.; Assistant Professor of Mathematics, University of Kansas, Lawrence, Kansas. *1202 Ohio Street.*
1903,	Feb.	BAILEY, FREDERICK HAROLD, M.A.; Associate Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass.
1891,	June	BAKER, ALFRED, M.A.; Fellow of the Royal Society of Canada; Member of the Société Mathématique de France; Professor of Mathematics, University of Toronto, Toronto, Canada.
1891,	Feb.	BAKER, ARTHUR LATHAM, C.E., Ph.D.; Professor of Mathematics, Manual Training High School, Brooklyn, N. Y.
1904,	Oct.	BAKER, RICHARD PHILIP, B.Sc.; Instructor in Mathematics, State University of Iowa, Iowa City, Ia. *1004 East College Street.*
1894,	Oct.	BARNUM, CHARLOTTE CYNTHIA, B.A., Ph.D. (Yale); U. S. Coast and Geodetic Survey, Washington, D. C.
1903,	Aug.	BARTLETT, DANA PRESCOTT, B.Sc.; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass.
1892,	Apr.	BARTON, SAMUEL MARX, B.A., Ph.D.; Professor of Mathematics, University of the South, Sewanee, Tenn.
1891,	Apr.	BASS, EDGAR WALES, Graduate of the U. S. Military Academy; Colonel U. S. Army, retired. *77 Park Avenue*, New York, N. Y.
1903,	Oct.	BATES, WILLIAM HUNT, M.A.; Member of the Deutsche Mathematiker-Vereinigung; Instructor in Mathematics, Purdue University, Lafayette, Ind. *Columbia Flats.*
1900,	Dec.	BAUER, GEORGE NEANDER, M.Sc., Ph.D. (Columbia); Assistant Professor of Mathematics, University of Minnesota, Minneapolis, Minn.
1905,	Feb.	BECKETT, CHARLES HARRISON, B.A.; Assistant Professor of Mathematics, Purdue University, Lafayette, Ind.

Date of Admission.

1891, Apr. BEMAN, WOOSTER WOODRUFF, M.A.; Member of the London Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, University of Michigan, Ann Arbor, Mich. *813 East Kingsley Street.*

1901, Oct. BENEDICT, HARRY YANDELL, M.A., Ph.D. (Harvard); Associate Professor of Mathematics and Astronomy, University of Texas, Austin, Texas.

1900, Dec. BENTON, JOHN ROBERT, B.A., B.Sc., Ph.D. (Göttingen). Bureau of Standards, Washington, D. C.

1897, Feb. *BERRY, ARTHUR, M.A.; Member of the London Mathematical Society; Fellow of the Cambridge Philosophical Society; Member of the Deutsche Mathematiker-Vereinigung; F.R.A.S.; Fellow and Assistant Tutor in Mathematics, King's College, Cambridge, England.

1902, Apr. BIKLÉ, CHARLES EARL, M.A.; Adjunct Professor of Mathematics, Teachers College, Columbia University, New York, N. Y.

1891, Dec. BLAKE, EDWIN MORTIMER, M.E., Ph.D. (Columbia); Member of the Société Mathématique de France; Professor of Mathematics and Mechanics, University of Arizona, Tucson, Ariz.

1900, Dec. BLICHFELDT, HANS FREDERIK, M.A., Ph.D. (Leipzig); Assistant Professor of Mathematics, Stanford University, Cal.

1900, Dec. *BLISS, GILBERT AMES, B.Sc., M.Sc., Ph.D. (Chicago); Member of the Deutsche Mathematiker-Vereinigung; Assistant Professor of Mathematics, Princeton University, Princeton, N. J. *11 Alexander Street.*

1892, Apr. *BÔCHER, MAXIME, B.A., Ph.D. (Göttingen); Member of the Deutsche Mathematiker-Vereinigung; Editor of the *Annals of Mathematics;* Professor of Mathematics, Harvard University, Cambridge, Mass. *48 Buckingham Street.*

1899, Oct. BOGARTE, MARTIN EUGENE, M.A.; Professor of Mathematics, Northern Indiana Normal School, Valparaiso, Ind. *College Avenue and Locust Street.*

1891, Nov. BOLZA, OSKAR, Ph.D. (Göttingen); Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, University of Chicago, Chicago, Ill.

1905, Dec. BÖRGER, ROBERT LACEY, B.A., M.A.; Instructor in Mathematics, University of Missouri, Columbia, Mo.

Date of Admission.

1898, Dec. *Bouton, Charles Leonard, M.Sc., M.A., Ph.D. (Leipzig); Member of the Deutsche Mathematiker-Vereinigung; Associate Editor of the *Transactions of the American Mathematical Society;* Assistant Professor of Mathematics, Harvard University, Cambridge, Mass. *503 Craigie Hall.*

1900, Dec. Bowden, Joseph, B.A., Ph.D. (Yale); Professor of Mathematics, Adelphi College, Brooklyn, N. Y. *296 Ryerson Street.*

1891, June Bowser, Edward Albert, C.E., LL.D.; Emeritus Professor of Mathematics, Rutgers College, New Brunswick, N. J.

1903, Feb. Brackett, Frank Parkhurst, M.A.; Professor of Mathematics, Pomona College, Claremont, Cal.

1901, Dec. Brasefield, Stanley Eugene, C.E., M.Sc.; Instructor in Mathematics and Graphics, Lafayette College, Easton, Pa. *327 Center Street.*

1903, Feb. Breckenridge, William Edwin, M.A.; Teacher of Mathematics, Stuyvesant High School, New York, N. Y. *225 East 23rd Street.*

1902, Sept. Bromwich, Thomas John I'anson, M.A.; Member of the London Mathematical Society; Member of the Edinburgh Mathematical Society; Fellow of the Cambridge Philosophical Society; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, Queen's College, Galway; Examiner in Mathematics, Royal University of Ireland; *Queen's College,* Galway, Ireland.

1901, Dec. Brooke, William Ellsworth, B.C.E., M.A.; Assistant Professor of Engineering Mathematics, University of Minnesota, Minneapolis, Minn.

1891, June Brooks, John Milton, M.A.; Birmingham Building and Improvement Company, Birmingham, Ala. *2109 First Avenue.*

1892, Feb. *Brown, Ernest William, M.A., Sc.D. (Cambridge); F.R.S.; Member of the London Mathematical Society; Fellow of the Cambridge Philosophical Society; F.R.A.S.; Member of the American Philosophical Society; Editor of the *Transactions of the American Mathematical Society;* Professor of Mathematics, Haverford College, Haverford, Pa.

1900, Oct. Brown, George Lincoln, M.Sc., Ph.D. (Chicago); Professor of Mathematics and Astronomy, South Dakota Agricultural College, Brookings, S. D.

Date of Admission.		
1902,	Sept.	*Brown, J. Stanford, B.Ph., M.A.; President of the Realty-Loan Trust Company; President and Treasurer of the New York Realty and Trust Company. *10 Belmont Avenue, Station A*, Yonkers, N. Y.
1904,	Apr.	Browne, John J., B.A.; Instructor in Mathematics, Colorado School of Mines, Golden, Colo.
1899,	Aug.	*Bullard, Warren Gardner, B.A., Ph.D. (Clark); Member of the Deutsche Mathematiker-Vereinigung; Associate Professor of Mathematics, Syracuse University, Syracuse, N. Y. *613 South Crouse Avenue.*
1891,	June	Bullis, Abram Rogers, B.Sc., B.C.E. Macedon, Wayne County, N. Y.
1903,	Feb.	Burrell, Ellen Louisa, B.A.; Professor of Pure Mathematics and Head of the Department, Wellesley College, Wellesley, Mass.
1904,	Oct.	Bussey, William Henry, M.A., Ph.D. (Chicago); Tutor in Mathematics, Columbia University, New York, N. Y. *520 West 123d Street.*
1891,	Apr.	Byerly, William Elwood, M.A., Ph.D. (Harvard); Editor of the *Annals of Mathematics;* Professor of Mathematics, Harvard University, Cambridge, Mass. *39 Hammond Street.*
1891,	June	Cain, William, C.E., M.A.; Professor of Mathematics, University of North Carolina, Chapel Hill, N. C.
1905,	Feb.	Cairns, William DeWeese, B.A., M.A.; Associate Professor of Mathematics, Oberlin College, Oberlin, Ohio. *Hanssenstrasse 14, Göttingen, Germany.*
1899,	Apr.	Cajori, Florian, M.Sc., Ph.D.; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, Colorado College, Colorado Springs, Colo. *1119 Wood Avenue.*
1900,	Dec.	Campbell, Donald Francis, Ph.D. (Harvard); Professor of Mathematics, Armour Institute of Technology, Chicago, Ill.
1897,	Oct.	Capron, Paul, M.A.; Instructor in Mathematics, Williams College, Williamstown, Mass.
1905,	Dec.	Carver, Walter Buckingham, Ph.B., Ph.D. (Johns Hopkins); Professor of Mathematics, Ursinus College, Collegeville, Pa.
1905,	Oct.	Cesàro, Ernesto, Math.D. (Rome); Member of the Italian Society of Sciences; Member of the Royal Society of Naples; Foreign Associate of the Royal Acad-

Admission. Date of

emy of Belgium; Corresponding Member of the Royal Academy of the Lincei; Corresponding Member of the Royal Academy of Turin; Corresponding Member of the Royal Academy of Lisbon; Corresponding Member of the Royal Society of Liége; Professor of Infinitesimal Calculus, University of Naples, Naples, Italy. *Vico Nere a Materdei, 6.*

1896, Apr. CHACE, ARNOLD BUFFUM, M.A., D.Sc. (Brown). Providence, R. I. *324 Angell Street.*

1905, Dec. CHAMPREUX, ALFRED JOSEPH, B.Sc.; Assistant in Mathematics, University of California, Berkeley, Cal. *938 Pine Street, Oakland, Cal.*

1895, Nov. CHESSIN, ALEXANDER S., M.A., C.E., Ph.D.; Professor of Mathematics, Washington University, St. Louis, Mo.

1895, Nov. CHITTENDEN, J. BRACE, B.Sc., M.A., Ph.D. (Königsberg); Professor of Mathematics, Brooklyn Polytechnic Institute, Brooklyn, N. Y.

1891, Apr. CLARK, JOHN EMORY, M.A.; Emeritus Professor of Mathematics, Yale University, New Haven, Conn. *34 South Park Terrace,* Longmeadow, Mass.

1900, Dec. CLARKE, JOHN EASTMAN, B.A., Ph.D. (Boston); Principal of the Gilbert School, Winsted, Conn.

1896, Sept. CLUTZ, FRANK HOLLINGER, B.A., Ph.D. (Johns Hopkins); Civil Engineer, Nelson and Buchanan Company, Chambersburg, Pa. *Fifth Avenue.*

1902, Dec. COBLE, ARTHUR B., M.A., Ph.D. (Johns Hopkins); Instructor in Mathematics, Johns Hopkins University, Baltimore, Md.

1905, Dec. CODDINGTON, EMILY, M.A., Ph.D. (Columbia). *24 West 58th Street,* New York, N. Y.

1893, Feb. COHEN, ABRAHAM, B.A., Ph.D. (Johns Hopkins); Coeditor of the *American Journal of Mathematics;* Associate in Mathematics, Johns Hopkins University, Baltimore, Md.

1891, Apr. *COLE, FRANK NELSON, B.A., Ph.D. (Harvard); Editor of the *Bulletin of the American Mathematical Society;* Professor of Mathematics, Columbia University, New York, N. Y.

1899, Dec. COLLINS, JOSEPH VICTOR, B.Ph., Ph.D.; Teacher of Mathematics, State Normal School, Stevens Point, Wis. *217 Division Street.*

Date of Admission.		
1903,	Aug.	COMSTOCK, CLARENCE ELMER, M.A.; Assistant Professor of Mathematics and Head of the Department, Bradley Polytechnic Institute, Peoria, Ill.
1898,	Feb.	COMSTOCK, ELTING HOUGHTALING, B.Sc.; Superintendent of Schools, Houghton, Mich. *P. O. Box 230.*
1892,	Oct.	CONANT, LEVI LEONARD, M.A., Ph.D.; Editor of the *Journal of the Worcester Polytechnic Institute;* Professor of Mathematics, Worcester Polytechnic Institute, Worcester, Mass.
1904,	Sept.	CONVERSE, HENRY A., B.A., Ph.D. (Johns Hopkins); Instructor in Mathematics, Baltimore Polytechnic Institute, Baltimore, Md. *2017 North Calvert Street.*
1900,	June	COOLIDGE, JULIAN LOWELL, B.A., B.Sc., Ph.D. (Bonn); Instructor in Mathematics, Harvard University, Cambridge, Mass. *7 Fayerweather Street.*
1902,	Dec.	CORNISH, WILLIAM AARON, B.A.; Instructor in Mathematics, State Normal School. Cortland, N. Y. *2 Stewart Place.*
1903,	Feb.	COWLEY, ELIZABETH BUCHANAN, M.A.; Instructor in Mathematics, Vassar College, Poughkeepsie, N. Y.
1900,	Dec.	CRATHORNE, ARTHUR R., B.A. *Gaussstrasse 4, Göttingen, Germany.*
1891,	Apr.	CRAWLEY, EDWIN SCHOFIELD, B.Sc., Ph.D. (Pennsylvania); Member of the Deutsche Mathematiker-Vereinigung; Thomas A. Scott Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa.
1903,	Oct.	CUMMINGS, LOUISE DUFFIELD, M.A.; Instructor in Mathematics, Vassar College, Poughkeepsie, N. Y.
1905,	Oct.	*CUNNINGHAM, ALLAN JOSEPH CHAMPNEYS, Lieutenant Colonel R. E., retired; Member of the London Mathematical Society; Fellow of King's College, London. *20 Essex Villas, Kensington,* London, W., England.
1891,	Dec.	CUNNINGHAM, SUSAN J., Professor of Mathematics and Astronomy, Swarthmore College, Swarthmore, Pa.
1900,	Dec.	CURJEL, HARALD WORTHINGTON, M.A.; F.I.A.; Member of the London Mathematical Society; Royal Insurance Company, Liverpool, England. *1 North John Street.*
1904,	Oct.	CURTIS, ARTHUR MILLS, B.Sc.; Instructor in Mathematics, State Normal and Training School, Oneonta, N. Y.

Date of Admission.		
1902,	Feb.	CURTISS, DAVID RAYMOND, M.A., Ph.D. (Harvard); Member of the Société Mathématique de France; Assistant Professor of Mathematics, Northwestern University, Evanston, Ill. *1939 Sherman Avenue.*
1900,	Oct.	DAVIS, CHARLES HENRY. *25 Broad Street*, New York, N. Y.
1891,	Apr.	DAVIS, ELLERY WILLIAMS, B.Sc., Ph.D. (Johns Hopkins); Professor of Mathematics and Dean of the College of Literature, Science and the Arts, University of Nebraska, Lincoln, Neb.
1903,	Aug.	*DAVIS, HARVEY NATHANIEL, M.A.; Instructor in Physics and Mathematics, Harvard University, Cambridge, Mass. *41 Perkins Hall.*
1891,	Apr.	DAVIS, NATHANIEL FRENCH, M.A., LL.D.; Professor of Pure Mathematics, Brown University, Providence, R. I. *159 Brown Street.*
1905,	Feb.	DAVISSON, SCHUYLER COLFAX, M.A., Sc.D.; Junior Professor of Mathematics, Indiana University, Bloomington, Ind. *515 East Third Street.*
1904,	Oct.	DEAN, GEORGE REINALD, B.Sc., C.E.; Professor of Mathematics, School of Mines, University of Missouri, Rolla, Mo.
1905,	Oct.	DECHERD, MARY ELIZABETH, M.A.; Tutor in Mathematics, University of Texas, Austin, Tex. *2313 Nueces Street.*
1903,	Feb.	DE COU, EDGAR EZEKIEL, M.Sc.; Assistant Professor of Mathematics, University of Oregon, Eugene, Ore. *719 Mill Street.*
1900,	Dec.	DEFOE, LUTHER MARION, Member of the London Mathematical Society; Professor of Mechanics, University of Missouri, Columbia, Mo.
1903,	Dec.	DEIMEL, RICHARD FRANCIS, M.A.; Lecturer in Physics, Columbia University, New York, N. Y. *209 West 97th Street.*
1891,	May	DELONG, IRA MITCHELL, M.A.; Professor of Mathematics, University of Colorado, Boulder, Colo. *1341 Broadway.*
1895,	Jan.	DELURY, ALFRED TENNYSON, M.A.; Associate Professor of Mathematics, University of Toronto, Toronto, Canada.
1892,	Jan.	DENNETT, WILLIAM SAWYER, B.A., M.D. *8 East 49th Street*, New York, N. Y.

Date of Admission.		
1896,	Nov.	DICKSON, LEONARD EUGENE, B.Sc., M.A., Ph.D. (Chicago); Member of the London Mathematical Society; Associate Editor of the *Transactions of the American Mathematical Society;* Editor of the *American Mathematical Monthly;* Assistant Professor of Mathematics, University of Chicago, Chicago, Ill.
1904,	Apr.	DIMICK, CHESTER EDWARD, B.A.; Instructor in Mathematics, University of Pennsylvania, Philadelphia, Pa. *Box 26, College Hall.*
1904,	Sept.	DODD, EDWARD LEWIS, M.A., Ph.D. (Yale); Instructor in Mathematics, State University of Iowa, Iowa City, Ia. *108 Liberal Arts Building.*
1905,	Dec.	DOHMEN, FRANZ JOSEPH, B.Lit., Ph.D. (Greifswald); Member of the Deutsche Mathematiker-Vereinigung; Honorary Lecturer in Mathematics, University of Texas, Austin, Tex. *1913 Whitis Avenue.*
1897,	Apr.	DOWLING, LINNÆUS WAYLAND, Ph.D. (Clark); Assistant Professor of Mathematics, University of Wisconsin, Madison, Wis. *234 Breese Terrace.*
1901,	Feb.	DOWNEY, JOHN F., C.E., M.Sc., M.A.; Professor of Mathematics and Dean of the College of Science, Literature and the Arts, University of Minnesota, Minneapolis, Minn.
1902,	Apr.	DUKE, FRANK WILLIAMSON, B.A.; Professor of Mathematics, Hollins Institute, Hollins, Va.
1902,	Oct.	DUNKEL, OTTO, M.E., M.A., Ph.D. (Harvard). *18 Rue du Cardinal Lemoine, Paris, France.*
1891,	Apr.	DURELL, FLETCHER, B.A., Ph.D.; Master in Mathematics, Lawrenceville School, Lawrenceville, N. J.
1891,	Apr.	DURFEE, WILLIAM PITT, B.A., Ph.D. (Johns Hopkins); Professor of Mathematics and Dean of the Faculty, Hobart College, Geneva, N. Y. *639 Main Street.*
1904,	Feb.	DUVAL, EDMUND PENDLETON RANDOLPH, B.Sc., M.A.; Master of Mathematics, Country School for Boys, Baltimore, Md. *217 East North Avenue.*
1891,	Apr.	ECHOLS, WILLIAM HOLDING, B.Sc.; Professor of Mathematics, University of Virginia, Charlottesville, Va.
1891,	Apr.	EDDY, HENRY TURNER, C.E., M.A., Ph.D., LL.D.; Professor of Engineering and Mechanics, University of Minnesota, Minneapolis, Minn. *916 Sixth Street, S. E.*
1896,	Dec.	EDMONDSON, THOMAS WILLIAM, B.A., Ph.D. (Clark); Professor of Mathematics, New York University, New York, N. Y. *University Heights.*

Date of Admission.		
1902,	Sept.	EDWARDS, GEORGE CUNNINGHAM, B.Ph.; Associate Professor of Mathematics, University of California, Berkeley, Cal.
1894,	June	EIMBECK, WILLIAM; Assistant in the U. S. Coast and Geodetic Survey, Washington, D. C.
1900,	Dec.	EISENHART, LUTHER PFAHLER, B.A., Ph.D. (Johns Hopkins); Assistant Professor of Mathematics, Princeton University, Princeton, N. J. *63 Little Hall.*
1898,	Feb.	*ELLIOTT, EDWIN BAILEY, M.A.; F.R.S.; Member of the London Mathematical Society; F.R.A.S.; Waynflete Professor of Pure Mathematics and Fellow of Magdalen College, Oxford, England. *4 Bardwell Road.*
1896,	Nov.	EMCH, ARNOLD, M.Sc., Ph.D. (Kansas); Professor of Mathematics, Cantonal College, Solothurn, Switzerland.
1898,	Apr.	ENGBERG, CARL CHRISTIAN, B.Sc., M.A., Ph.D. (Nebraska); Assistant Professor of Mathematics, University of Nebraska, Lincoln, Neb.
1892,	Mar.	ENGLER, EDMUND ARTHUR, M.A., Ph.D., LL.D.; President of the Worcester Polytechnic Institute, Worcester, Mass. *11 Boynton Street.*
1903,	Oct.	ENGLISH, HARRY, B.A., LL.M.; Director of Mathematics, Washington High Schools, Washington, D. C. *2907 P Street, N. W.*
1904,	Sept.	EPSTEEN, SAUL, B.Sc., Ph.D. (Zurich); Member of the Deutsche Mathematiker-Vereinigung; Associate Editor of *School Science and Mathematics;* Instructor in Mathematics, University of Colorado, Boulder, Colo. *1149 Twelfth Street.*
1898,	Oct.	*ESCOTT, EDWARD BRIND, M.Sc.; Instructor in Mathematics, University of Michigan, Ann Arbor, Mich. *718 Monroe Street.*
1901,	Dec.	ESTY, THOMAS CUSHING, M.A.; Professor of Mathematics, Amherst College, Amherst, Mass.
1891,	May	ESTY, WILLIAM COLE, LL.D.; Emeritus Professor of Mathematics and Astronomy, Amherst College, Amherst, Mass.
1905,	Sept.	EVANS, HENRY BROWN, M.E., Ph.D. (Pennsylvania); Member of the Astronomical and Astrophysical Society of America; Assistant Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa. *College Hall.*

Date of Admission.

1899, Feb. FAUGHT, JOHN BROOKIE, M.A., Ph.D.; Professor of Mathematics, Northern State Normal School, Marquette, Mich. *1312 Presque Isle Avenue.*

1903, Apr. FERRIN, WILLIAM NELSON, M.A., LL.D.; Vermont Professor of Mathematics and President, Pacific University, Forest Grove, Ore.

1901, Feb. FERRY, FREDERICK CARLOS, M.A., Ph.D. (Clark); Professor of Mathematics and Dean, Williams College, Williamstown, Mass.

1900, June FIELD, PETER, M.Sc., Ph.D. (Cornell); Instructor in Mathematics, University of Michigan, Ann Arbor, Mich.

1891, May FIELDS, JOHN CHARLES, Ph.D. (Johns Hopkins); Member of the Société Mathématique de France; Associate Professor of Mathematics, University of Toronto, Toronto, Canada. *60 Sussex Avenue.*

1901, Oct. FINDLAY, WILLIAM, M.A., Ph.D. (Chicago); Professor of Mathematics, McMaster University, Toronto, Canada.

1891, May FINE, HENRY BURCHARD, M.A., Ph.D. (Leipzig); Professor of Mathematics, Princeton University, Princeton, N. J.

1891, June FINKEL, BENJAMIN FRANKLIN, M.A., M.Sc.; Member of the London Mathematical Society; Member of the Circolo Matematico di Palermo; Editor of the *American Mathematical Monthly;* Professor of Mathematics and Physics, Drury College, Springfield, Mo.; Harrison Fellow in Mathematics, University of Pennsylvania, Philadelphia, Pa. *4038 Locust Street,* Philadelphia, Pa.

1899, Feb. FISHBURNE, EDWARD BELL, JR., B.Sc., M.A.; President of the Hoge Memorial Military Academy, Blackstone, Va.

1891, Oct. FISHER, GEORGE EGBERT, M.A., Ph.D.; Member of the Deutsche Mathematiker-Vereinigung; Assistant Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa.

1895, Jan. FISHER, IRVING, B.A., Ph.D. (Yale); Professor of Political Economy, Yale University, New Haven, Conn. *460 Prospect Street.*

1888, Nov. FISKE, THOMAS SCOTT, M.A., Ph.D. (Columbia); EX-PRESIDENT; Member of the London Mathematical Society; Professor of Mathematics, Columbia University, New York, N. Y.

Date of Admission.

1897, Feb. FITCH, ANNIE LOUISE MACKINNON (MRS. EDWARD), M.Sc., Ph.D. Clinton, N. Y.

1901, Oct. FITE, WILLIAM BENJAMIN, Ph.D. (Cornell); Assistant Professor of Mathematics, Cornell University, Ithaca, N. Y. *127 Eddy Street.*

1904, Oct. FLEET, ROBERT RYLAND, M.A., Ph.D. (Heidelberg); Professor of Mathematics, William Jewell College, Liberty, Mo.

1894, Oct. FLOWERS, ROBERT LEE, Graduate of the U. S. Naval Academy; Professor of Mathematics, Trinity College, Durham, N. C.

1903, Dec. FORBES, CHARLES SAVAGE, M.A., Ph.D. (Columbia); Assistant Statistician, Casualty Company of America, New York, N. Y. *133 East 30th Street.*

1900, Apr. FORD, ROBERT DALE, M.Sc.; Professor of Mathematics, St. Lawrence University, Canton, N. Y.

1899, Aug. *FORD, WALTER B., Ph.D. (Harvard); Member of the Société Mathématique de France; Instructor in Mathematics, University of Michigan, Ann Arbor, Mich. *617 Forest Avenue.*

1899, Dec. FORSYTH, ANDREW RUSSELL, Sc.D. (Cambridge, Dublin, Victoria, Oxford), LL.D. (Glasgow); Math. D. (Christiania); F.R.S.; Hon. F.R.S.E.; Corresponding Associate of the Reale Istituto Lombardo; President of the London Mathematical Society; Honorary Member of the Manchester Literary and Philosophical Society; Member of Cambridge Philosophical Society; F.R.A.S; Sadlerian Professor of Pure Mathematics and Fellow of Trinity College, Cambridge University, Cambridge, England.

1893, Dec. FRANKLAND, FREDERICK WILLIAM, F.I.A.; Member of the Actuarial Society of America. Foxton, New Zealand.

1892, Dec. FRANKLIN, FABIAN, B.Ph., Ph.D. (Johns Hopkins), LL.D.; Associate Fellow of the American Academy of Arts and Sciences. *211 West Monument Street,* Baltimore, Md.

1903, Feb. FRAZER, FRANK DEAN, B.Sc., M.A. *1715 East Spring Street,* Seattle, Wash.

1905, Feb. FRENCH, JOHN SHAW, B.A., Ph.D. (Clark); Professor of Mathematics, Jacob Tome Institute, Port Deposit, Md.

Date of Admission.

1895, Nov. FRIZELL, ARTHUR BOWES, M.A.; Instructor in Mathematics, Harvard University, Cambridge, Mass. *15 Sumner Street.*

1892, Oct. GABLE, GEORGE DANIEL, M.A., Ph.D.; Hunt Professor of Mathematics and Secretary of the Faculty, Parsons College, Fairfield, Iowa.

1899, Oct. GALE, ARTHUR SULLIVAN, B.A., Ph.D. (Yale); Member of the Deutsche Mathematiker-Vereinigung; Assistant Professor of Mathematics, University of Rochester, Rochester, N. Y. *131 Harvard Street.*

1899, Aug. GATES, FANNY COOK, M.L.; Associate Professor of Physics, The Woman's College, Baltimore, Md.

1904, Dec. GAVETT, GEORGE IRVING, B.Sc.; Instructor in Civil Engineering, Cornell University, Ithaca, N. Y. *508 University Avenue.*

1903, Dec. GECKELER, OTTO THEODORE, B.A.; Junior Professor of Mathematics, Georgia School of Technology, Atlanta, Ga.

1894, Feb. GENTRY, RUTH, Ph.B., Ph.D. (Bryn Mawr); Associate Principal and Head Teacher of Mathematics, Miss Gleim's School for Girls, Pittsburgh, Pa. *805 South Negley Avenue.*

1897, Dec. GERMANN, GEORGE B., B.A., Ph.D. (Columbia); Principal of Public School No. 130, *Ocean Parkway and Fort Hamilton Avenue,* Brooklyn, N. Y.

1901, Feb. *GERRANS, HENRY TRESAWNA, M.A.; Member of the London Mathematical Society; Member of the Edinburgh Mathematical Society; Member of the Société Mathématique de France; Member of the Circolo Matematico di Palermo; Fellow and Tutor of Worcester College, Oxford, England.

1903, Oct. GIBSON, GEORGE ALEXANDER, M.A., LL.D.; Fellow of the Royal Society of Edinburgh; Honorary Member of the Edinburgh Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics in the Glasgow and West of Scotland Technical College, Glasgow, Scotland. *8 Sandyford Place, W.*

1904, Apr. GILLESPIE, WILLIAM, B.A., Ph.D. (Chicago); Assistant Professor of Mathematics, Princeton University, Princeton, N. J. *10 Nassau Street.*

Date of Admission.		
1892,	June	GLAISHER, JAMES WHITBREAD LEE, M.A., Sc.D.; F.R.S.; F.R.A.S.; Editor of the *Messenger of Mathematics* and of the *Quarterly Journal of Pure and Applied Mathematics;* Fellow of Trinity College, Cambridge, England.
1891,	May	GLASHAN, JOHN CADENHEAD, LL.D.; Fellow of the Royal Society of Canada; Inspector of Public Schools, School Inspector's Office, Ottawa, Canada.
1905,	Dec.	GLENN, OLIVER EDMUNDS, M.A., Ph.D. (Pennsylvania); Associate Editor of the *American Mathematical Monthly;* Acting Professor of Mathematics, Drury College, Springfield, Mo. *1227 Clay Street.*
1896,	Nov.	GLOVER, JAMES WATERMAN, M.A., Ph.D. (Harvard); Member of the Deutscher Verein für Versicherungs-Wissenschaft; Assistant Professor of Mathematics, University of Michigan, Ann Arbor, Mich. *1312 Geddes Avenue.*
1904,	Feb.	GOODENOUGH, GEORGE ALFRED, M.E.; Assistant Professor of Mechanical Engineering, University of Illinois, Urbana, Ill. *607 West Elm Street.*
1897,	Oct.	GORE, JOHN KINSEY, M.A.; Member of the Actuarial Society of America; Actuary of the Prudential Insurance Company, Newark, N. J.
1902,	Feb.	GOULD, ALICE BACHE, B.A. *88 Bay State Road,* Boston, Mass.
1903,	Oct.	GOULD, MARY FRANCIS, B.A.; Teacher of Mathematics, Dedham High School, Dedham, Mass.
1904,	Dec.	GRABER, MYRON EARLE, M.A.; Member of the Circolo Matematico di Palermo; Professor of Physics, Heidelberg University, Tiffin, O. *40 Circular Street.*
1903,	Aug.	GRAHAM, WILLIAM JOSEPH, B.A.; Member of the Actuarial Society of America; Actuarial Department, Metropolitan Life Insurance Company, New York, N. Y.
1904,	Oct.	GRANT, ELMER DANIEL, M.A.; Assistant Professor of Mathematics and Physics, Michigan College of Mines, Houghton, Mich.
1897,	May	GRANVILLE, WILLIAM ANTHONY, B.Ph., Ph.D. (Yale); Instructor in Mathematics, Yale University, New Haven, Conn. *118 Howe Street.*
1904,	Apr.	GRAY, CLIFFORD, E.E., M.A. *206 West 119th Street,* New York, N. Y.

Date of Admission.		
1891,	June	GREEN, RUFUS LOT, B.Sc., M.A.; Professor of Mathematics, Stanford University, Cal.
1897,	Oct.	*GREENHILL, ALFRED GEORGE, M.A.; F.R.S.; Member of the London Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, Ordnance College, Woolwich, England.
1900,	June	GREENSTREET, WILLIAM JOHN, M.A.; Member of the London Mathematical Society; Member of the Edinburgh Mathematical Society; F.R.A.S.; Editor of the *Mathematical Gazette;* Headmaster of the Marling School, Stroud, Gloucestershire, England.
1901,	Oct.	GREENWOOD, GEORGE WILLIAM, M.A.; Professor of Mathematics and Astronomy, McKendree College, Lebanon, Ill.
1893,	Dec.	GRIFFITHS, IDA, B.A. *132 West 80th Street,* New York, N. Y.
1899,	Oct.	*GROAT, BENJAMIN FELAND, B.Sc.; Professor of Mathematics and Mechanics, School of Mines, University of Minnesota, Minneapolis, Minn.
1905,	Sept.	*GUCCIA, NOB. GIOVANNI BATTISTA, DEI MARCHESI DI GANZARIA, Math.D.; Member of the Royal Academy of Sciences, Letters and Fine Arts of Palermo; Member of the Société Mathématique de France; Member of the Deutsche Mathematiker-Vereinigung; Corresponding Member of the Société Philomathique de Paris; Corresponding Member of the Royal Society of Liége; Member of the International Commission of the *Répertoire Bibliographique des Sciences Mathématiques;* Director of the *Rendiconti del Circolo Matematico di Palermo;* Professor of Higher Geometry, University of Palermo, Palermo, Italy. *Via Ruggiero Settimo, 30.*
1894,	June	*GUMMERE, HENRY VOLKMAR, B.Sc., M.A.; Professor of Mathematics, Drexel Institute, Philadelphia, Pa. *229 South 44th Street.*
1902,	Feb.	GUNDERSEN, CARL, M.A., Ph.D. (Columbia); Instructor in Mathematics, Michigan Agricultural College, Agricultural College, Mich.
1894,	Aug.	HAGEN, JOHN GEORGE, S.J.; Member of the Deutsche Mathematiker-Vereinigung; Director of the Georgetown College Observatory, Washington, D. C. *Georgetown University.*

Date of Admission.		
1902,	Dec.	HALL, ARTHUR GRAHAM, B.Sc., Ph.D. (Leipzig); Professor of Mathematics, Miami University, Oxford, Ohio.
1891,	Nov.	HALL, ASAPH, JR., B.A., Ph.D. (Yale); Member of the Astronomische Gesellschaft. U. S. Naval Observatory, Washington, D. C.
1894,	Oct.	HALLETT, GEORGE HERVEY, M.A., Ph.D.; Member of the London Mathematical Society; Assistant Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa. *College Hall.*
1891,	May	HALSTED, GEORGE BRUCE, M.A., Ph.D. (Johns Hopkins); Member of the Société Mathématique de France; Member of the London Mathematical Society; Member of the Circolo Matematico di Palermo; Member of the Deutsche Mathematiker-Vereinigung; F.R.A.S.; Professor of Mathematics, Kenyon College, Gambier, Ohio.
1899,	Aug.	HAMMERSLOUGH, CARRIE, M.A. *1215 Madison Avenue,* New York, N. Y.
1901,	Oct.	HANAWALT, FRANCIS WAYLAND, M.A.; Professor of Mathematics and Astronomy, Albion College, Albion, Mich. *201 North Ingham Street.*
1902,	Dec.	HANCOCK, EDWARD LEE, M.Sc.; Instructor in Applied Mechanics, Purdue University, Lafayette, Ind. *1003 State Street.*
1895,	Apr.	HANCOCK, HARRIS, B.A., Ph.D. (Berlin), D.Sc. (Paris); Member of the London Mathematical Society; Member of the Société Mathématique de France; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, University of Cincinnati, Cincinnati, Ohio. *Auburn Hotel, Mount Auburn.*
1900,	Dec.	HANNA, ULYSSES S., M.A.; Assistant Professor of Mathematics, Indiana University, Bloomington, Ind. *828 Atwater Avenue.*
1894,	Feb.	*HARDCASTLE, FRANCES, Member of the London Mathematical Society. *25 Boundary Road,* St. John's Wood, London, N. W., England.
1902,	Apr.	HARDY, JAMES GRAHAM, M.A., Ph.D.; Assistant Professor of Mathematics, Williams College, Williamstown, Mass.
1891,	May	*HARKNESS, JAMES, M.A.; Professor of Mathematics, McGill University, Montreal, Canada.
1891,	Apr.	HART, JAMES NORRIS, C.E., M.Sc.; Professor of Mathematics and Astronomy, University of Maine, Orono, Me.

Date of Admission.

1905, Oct. HART, WALTER WILSON, B.A.; Teacher of Mathematics, Shortridge High School, Indianapolis, Ind.

1904, Feb. HARVEY, HENRY CLAY, M.Sc.; Professor of Mathematics, State Normal School, Kirksville, Mo. *315 South Stanford Street.*

1899, Dec. HASKELL, MELLEN WOODMAN, M.A., Ph.D. (Göttingen); Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Associate Professor of Mathematics, University of California, Berkeley, Cal. *P. O. Box 3.*

1903, Feb. HASKINS, CHARLES NELSON, B.Sc., Ph.D. (Harvard); Instructor in Mathematics, Cornell University, Ithaca, N. Y. *120 Oak Avenue.*

1891, May HATHAWAY, ARTHUR STAFFORD, B.Sc., Professor of Mathematics, Rose Polytechnic Institute, Terre Haute, Ind. *2206 North Tenth Street.*

1901, Feb. HAVILAND, EDWIN, JR., B.Sc., M.A. Stanford University, Cal. *P. O. Box 212.*

1898, Aug. HAWKES, HERBERT EDWIN, B.A., Ph.D. (Yale); Member of the Deutsche Mathematiker-Vereinigung; Assistant Professor of Mathematics, Yale University, New Haven, Conn. *45 Huntington Street.*

1894, Aug. HAY, GUSTAVUS, B.A., M.D. *1 Hathaway Street,* Jamaica Plain, Mass.

1905, Dec. HAYNES, ELI STUART, B.A.; Assistant in Mathematics, University of Missouri, Columbia, Mo. *500 College Avenue.*

1901, Aug. HEDRICK, EARLE RAYMOND, M.A., Ph.D. (Göttingen); Member of the Société Mathématique de France; Member of the Deutsche Mathematiker-Vereinigung; Professor and Head of the Department of Mathematics, University of Missouri, Columbia, Mo. *302 South Ninth Street.*

1900, Dec. HEWES, LAURENCE ILSLEY, B.Sc., Ph.D. (Yale); Instructor in Mathematics, Yale University, New Haven, Conn. *86 Pearl Street.*

1904, Oct. HIGDON, JOHN E., B.A.; Teacher of Mathematics, Shortridge High School, Indianapolis, Ind. *3949 Charles Avenue.*

1892, Dec. HILL, GEORGE WILLIAM, Ph.D., Sc.D., LL.D.; EX-PRESIDENT; Member of the National Academy of Sciences; Corresponding Member of the Paris Academy of Sci-

Date of Admission.

ences; Foreign Member of the Royal Society of London; Foreign Associate of the Royal Astronomical Society. West Nyack, N. Y.

1905, Sept. HILTEBEITEL, ADAM MILLER, B.A., M.A.; Head of the Department of Mathematics, Peekskill Military Academy, Peekskill, N. Y.

1898, Dec. HIMOWICH, ADOLPH A., M.Sc., M.D. *130 Henry Street*, New York, N. Y.

1894, Mar. HITCHCOCK, FANNY R. M., Ph.D. *4038 Walnut Street*, Philadelphia, Pa.

1905, Feb. HODGE, FREDERICK HUMBERT, M.A.; Assistant Professor of Mathematics, Collegiate Department, Clark University, Worcester, Mass.

1902, Apr. HODGKINS, HOWARD LINCOLN, M.A., Ph.D. (George Washington); Professor and Head of the Department of Physics, George Washington University, Washington, D. C.

1895, Feb. HOLGATE, THOMAS FRANKLIN, M.A., Ph.D. (Clark), LL.D.; Professor of Mathematics, Dean of the College of Liberal Arts, and Acting President of the University, Northwestern University, Evanston, Ill. *617 Library Street.*

1903, Dec. HOOK, EDWARD ALFRED, M.Sc., M.A.; Teacher of Mathematics, Commercial High School, Brooklyn, N. Y. *274 Cumberland Street.*

1902, Dec. HOSKINS, LEANDER MILLER, C.E., M.Sc.; Professor of Applied Mathematics, Stanford University, Palo Alto, Cal.

1891, May HOWE, CHARLES SUMNER, M.Sc., Ph.D.; F.R.A.S.; Member of the Astronomical and Astrophysical Society of America; President of the Case School of Applied Science, Cleveland, Ohio.

1891, May HOWE, HERBERT ALONZO, M.A., Sc.D.; Member of the Astronomische Gesellschaft; Director of the Chamberlin Observatory of the University of Denver, University Park, Col.

1891, May HULBURT, LORRAIN SHERMAN, B.A., Ph.D. (Johns Hopkins); Collegiate Professor of Mathematics, Johns Hopkins University, Baltimore, Md.

1904, Feb. HUN, JOHN GALE, Ph.D. (Johns Hopkins); Instructor in Mathematics, Princeton University, Princeton, N. J.

1901, Oct. HUNTINGTON, EDWARD VERMILYE, M.A., Ph.D. (Strassburg); Member of the Deutsche Mathematiker-Ver-

Date of Admission.		
		einigung; Editor of the *Annals of Mathematics;* Assistant Professor of Mathematics, Harvard University, Cambridge, Mass. *35 Fairfax Hall.*
1891,	Apr.	HUSSEY, WILLIAM J., B.Sc.; Foreign Associate of the Royal Astronomical Society; Professor of Astronomy and Director of the Observatory, University of Michigan, Ann Arbor, Mich.
1896,	Nov.	HUTCHINSON, JOHN IRWIN, B.A., Ph.D. (Chicago); Associate Editor of the *Transactions of the American Mathematical Society;* Assistant Professor of Mathematics, Cornell University, Ithaca, N. Y. *Cornell Heights.*
1891,	May	HYDE, EDWARD WYLLYS, C.E.; Actuary of the Columbia Life Insurance Company, Cincinnati, Ohio. *814 Lincoln Avenue, Station D.*
1904,	Apr.	INGOLD, LOUIS, B.A., M.A.; Instructor in Mathematics, University of Missouri, Columbia, Mo. *5546 Ingleside Avenue, Chicago, Ill.*
1901,	Dec.	JACKSON, LAMBERT LINCOLN, M.A.; Professor of Mathematics, State Normal School, Brockport, N. Y.
1892,	Jan.	JACOBUS, DAVID S., M.E.; Professor of Experimental Engineering, Stevens Institute of Technology, Hoboken, N. J.
1888,	Nov.	JACOBY, HAROLD, Ph.D. (Columbia); Member of the Astronomische Gesellschaft; F.R.A.S.; Professor of Astronomy, Columbia University, New York, N. Y. *333 West 76th Street.*
1893,	Feb.	JAMES, JOHN NELSON, B.A.; Professor of Mathematics, Epworth University, Oklahoma, O. T.
1905,	Dec.	JEANS, JAMES HOPWOOD, M.A.; Fellow of Trinity College, Cambridge; Member of the London Mathematical Society; Professor of Applied Mathematics, Princeton, N. J.
1897,	Apr.	JOFFE, S. A., M.Sc.; A.A.S.; Mutual Life Insurance Company of New York. *32 Nassau Street,* New York, N. Y.
1891,	Mar.	JOHNSON, WILLIAM WOOLSEY, M.A.; Member of the London Mathematical Society; Professor of Mathematics, U. S. Naval Academy, Annapolis, Md.
1905,	Feb.	JOSLYN, ARTHUR EVERETT, B.Sc., M.A.; Instructor in Mathematics, Armour Institute of Technology, Chicago, Ill.

Date of Admission.		
1904,	Oct.	KARPINSKI, LOUIS CHARLES, B.A., Ph.D. (Strassburg); Member of the Deutsche Mathematiker-Vereinigung; Instructor in Mathematics, University of Michigan, Ann Arbor, Mich. *735 South 12th Street.*
1899,	Oct.	*KASNER, EDWARD, M.A., Ph.D. (Columbia); Associate Editor of the *Transactions of the American Mathematical Society;* Instructor in Mathematics, Columbia University, New York, N. Y. *121 East 114th Street.*
1903,	Oct.	KELLOGG, OLIVER DIMON, M.A., Ph.D. (Göttingen); Assistant Professor of Mathematics, University of Missouri, Columbia, Mo. *5 Missouri Avenue.*
1891,	Dec.	KENNELLY, A. E., D.Sc.; F.R.A.S. Harvard University, Cambridge, Mass.
1900,	Dec.	KENYON, ALFRED MONROE, M.A.; Professor of Mathematics, Purdue University, Lafayette, Ind. *103 Waldron Street,* West Lafayette.
1897,	Aug.	KEPPEL, HERBERT G., B.A., Ph.D. (Clark); Member of the Amsterdam Mathematical Society; Instructor in Mathematics, Northwestern University, Evanston, Ill. *616 Foster Street.*
1892,	Oct.	KERR, WILLIAM JASPER, D.Sc.; President of the Agricultural College of Utah, Logan, Utah.
1897,	Aug.	KEYSER, CASSIUS JACKSON, B.Sc., M.A., Ph.D. (Columbia); Adrain Professor of Mathematics, Columbia University, New York, N. Y.
1904,	Apr.	KNEPPER, MYRTLE, B.L., M.A.; Assistant in Mathematics, State Normal School, Cape Girardeau, Mo.
1891,	Dec.	KNISELY, ALEXANDER, B.Sc. Columbia City, Ind.
1903,	Apr.	KOCH, ERNEST HERMAN, JR., B.Sc.; Instructor in Mathematics, Pratt Institute, Brooklyn, N. Y. *125 Willoughby Avenue.*
1901,	Oct.	KUHN, HARRY WALDO, Ph.D. (Cornell); Assistant Professor of Mathematics, Ohio State University, Columbus, Ohio. *308 West Eighth Avenue.*
1894,	Apr.	*LADUE, POMEROY, B.Sc. *309 South Sycamore Street,* Lansing, Michigan.
1893,	Dec.	LAMBERT, PRESTON ALBERT, M.A.; Assistant Professor of Mathematics, Lehigh University, South Bethlehem, Pa. *215 South Center Street,* Bethlehem, Pa.
1897,	Jan.	LANDIS, WILLIAM WEIDMAN, M.A.; Professor of Mathematics, Dickinson College, Carlisle, Pa.

Date of Admission.		
1898,	Apr.	LANZA, GAETANO, B.Sc., C. and M.E.; Professor of Theoretical and Applied Mechanics, in charge of the Department of Mechanical Engineering, Massachusetts Institute of Technology, Boston, Mass.
1897,	May	LAVES, KURT, M.A., Ph.D. (Berlin); Member of the Astronomische Gesellschaft; Assistant Professor of Astronomy, University of Chicago, Chicago, Ill.
1889,	Dec.	LEGRAS, GUSTAVE, M.Sc.; Assistant Professor of Mathematics, College of the City of New York. *17 Lexington Avenue*, New York, N. Y.
1900,	Oct.	LEHMER, DERRICK NORMAN, M.A., Ph.D. (Chicago); Assistant Professor of Mathematics, University of California, Berkeley, Cal. *2736 Regent Street.*
1903,	Aug.	LENNES, NELS JOHANN, M.Sc.; Instructor in Mathematics, John Marshall High School, Chicago, Ill. *5622 Ellis Avenue.*
1905,	Apr.	LEONARD, HEMAN BURR, B.Sc.; Instructor in Mathematics, University of Colorado, Boulder, Colo.
1904,	Oct.	LESTER, OLIVER CLARENCE, M.A., Ph.D. (Yale); Instructor in Physics, Sheffield Scientific School, Yale University, New Haven, Conn. *99 Edgewood Avenue.*
1892,	Feb.	LEUSCHNER, ARMIN OTTO, B.A., Ph.D. (Berlin), Sc.D.; Member of the Astronomische Gesellschaft; F.R.A.S.; Associate Professor of Astronomy and Geodesy, and Director of the Students' Observatory, University of California, Berkeley, Cal. *2333 Cedar Street.*
1904,	Sept.	LEVI-CIVITA, TULLIO, Math.D. (Padua); Corresponding Member of the Reale Academia dei Lincei; Corresponding Member of the Académie Impériale des Sciences de Saint-Pétersbourg; Corresponding Member of the Reale Istituto Veneto; Member of the Société Mathématique de France; Member of the Circolo Matematico di Palermo; Member of the Deutsche Mathematiker-Vereinigung; Professor of Theoretical Mechanics, University of Padua, Padua, Italy. *Via Altinate, 14.*
1894,	June	LING, GEORGE HERBERT, Ph.D. (Columbia); Instructor in Mathematics, Columbia University, New York, N. Y.
1900,	Dec.	LITTLE, CHARLES NEWTON, B.A., Ph.D. (Yale); Professor of Civil Engineering, University of Idaho, Moscow, Id.
1900,	June	LOCKE, LESLIE LELAND, M.A. *404 Quincy Street*, Brooklyn, N. Y.

Date of Admission.

1901, Feb. LOVE, AUGUSTUS EDWARD HOUGH, M.A., D.Sc. (Oxford); F.R.S.; Honorary Secretary of the London Mathematical Society; Sedleian Professor of Natural Philosophy, Oxford University, Oxford, England. *34 St. Margaret's Road.*

1891, Apr. LOVE, JAMES LEE, M.A.; Assistant Professor of Mathematics and Secretary of the Lawrence Scientific School, Harvard University, Cambridge, Mass. *16 University Hall.*

1894, Oct. *LOVETT, EDGAR ODELL, M.A., Ph.D. (Virginia, Leipzig); Member of the Société Mathématique de France; Member of the Circolo Matematico di Palermo; Member of the Deutsche Mathematiker-Vereinigung; Professor of Astronomy, Princeton University, Princeton, N. J.

1905, Feb. LOWBER, JAMES WILLIAM, M.A., Ph.D., D.Sc., LL.D.; F.R.A.S. *113 East 18th Street,* Austin, Texas.

1896, Nov. *LUDLOW, HENRY HUNT, Graduate of the U. S. Military Academy; Major, U. S. Artillery. Agricultural College, Oktibbeha County, Miss.

1903, Feb. LUNN, ARTHUR C., M.A., Ph.D. (Chicago); Member of the Astronomical and Astrophysical Society of America; Instructor in Applied Mathematics, University of Chicago, Chicago, Ill.

1894, Oct. LYMAN, ELMER A., B.A.; Professor of Mathematics and Principal of the Michigan State Normal College, Ypsilanti, Mich. *126 North Washington Street.*

1904, Sept. LYMER, JOHN CHARLES, M.A.; Acting Professor of Mathematics, Lawrence University, Appleton, Wis. *672 Lawe Street.*

1904, Dec. LYTLE, ERNEST BARNES, B.Sc., M.A.; Instructor in Mathematics, University of Illinois, Urbana, Ill. *924 West Illinois Street.*

1905, Apr. MCCLENON, RAYMOND BENEDICT, B.A., Ph.D. (Yale); Instructor in Mathematics, Iowa College, Grinnell, Ia. *1305 Broad Street.*

1889, Dec. *MCCLINTOCK, EMORY, M.A., Ph.D., LL.D.; EX-PRESIDENT; F.I.A.; Member of the Actuarial Society of America; Member of the London Mathematical Society; Actuary of the Mutual Life Insurance Company of New York. *32 Nassau Street,* New York, N. Y.

1903, Aug. MCCORMACK, THOMAS JOSEPH, LL.B., M.A.; Principal of La Salle-Peru High School, La Salle, Ill.

Date of Admission.

1902, Apr. McDonald, John Hector, B.A., Ph.D. (Chicago); Instructor in Mathematics, University of California, Berkeley, Cal. *2337 Telegraph Avenue.*

1891, May McDougall, Alexander Hiram, B.A.; Principal of the Collegiate Institute, Ottawa, Canada. *286 Kent Street.*

1895, Nov. McKinney, Thomas Emery, M.A., Ph.D. (Chicago); Professor of Mathematics and Astronomy, Marietta College, Marietta, Ohio. *412 Wooster Street.*

1891, Apr. McMahon, James, M.A.; Member of the London Mathematical Society; Professor of Mathematics, Cornell University, Ithaca, N. Y. *7 Central Avenue.*

1891, Apr. McNeill, Malcolm, M.A., Ph.D.; Professor of Mathematics and Astronomy, Lake Forest University, Lake Forest, Ill.

1898, Dec. *Macaulay, Francis Sowerby, M.A., D.Sc. (London); Member of the London Mathematical Society; Associate Editor of the *Mathematical Gazette;* Mathematical Master, St. Paul's School, West Kensington, London, W., England.

1891, May Macfarlane, Alexander, M.A., D.Sc. (Edinburgh), LL.D.; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Lecturer on Mathematical Physics, Lehigh University, South Bethlehem, Pa. *Victoria Avenue, Chatham, Ontario, Canada.*

1897, Dec. Mackay, John Sturgeon, M.A., LL.D.; Fellow of the Royal Society of Edinburgh; Honorary Member of the Edinburgh Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung. *69 Northumberland Street,* Edinburgh, Scotland.

1905, Feb. Maclagan-Wedderburn, Joseph H., M.A.; Fellow of the Royal Society of Edinburgh; Member of the Edinburgh Mathematical Society; Lecturer on Mathematics, University of Edinburgh, Edinburgh, Scotland. *8 East Fettes Avenue.*

1888, Nov. Maclay, James, C.E., Ph.D. (Columbia); Professor of Mathematics, Columbia University, New York, N. Y.

1897, Jan. Maddison, Isabel, B.Sc., Ph.D. (Bryn Mawr); Member of the London Mathematical Society; Assistant to the President and Reader in Mathematics, Bryn Mawr College, Bryn Mawr, Pa.

1897, Aug. Maltbie, William Henry, M.A., Ph.D. (Johns Hopkins); Professor of Mathematics, The Woman's College, Baltimore, Md.

Date of Admission.

1900, June MANCHESTER, JAMES EUGENE, B.Sc., D.Sc. (Tübingen); Instructor in Mathematics, University of Minnesota, Minneapolis, Minn.

1891, Nov. MANN, CHARLES RIBORG, M.A., Ph.D. (Berlin); Assistant Professor of Physics, University of Chicago, Chicago, Ill.

1891, Nov. MANNING, HENRY PARKER, B.A., Ph.D. (Johns Hopkins); Assistant Professor of Pure Mathematics, Brown University, Providence, R. I.

1903, Oct. MANNING, WILLIAM ALBERT, M.A., Ph.D. (Stanford); Instructor in Applied Mathematics, Stanford University, Cal.

1891, June MARKLEY, JOSEPH LYBRAND, M. A., Ph. D. (Harvard); Junior Professor of Mathematics, University of Michigan, Ann Arbor, Mich. *1320 South University Avenue.*

1891, Apr. MARTIN, ARTEMAS, M.A., Ph.D., LL.D; Member of the London Mathematical Society; Member of the Société Mathématique de France; Member of the Circolo Matematico di Palermo; Member of the Deutsche Mathematiker-Vereinigung; Member of the Edinburgh Mathematical Society; U. S. Coast and Geodetic Survey, Washington, D. C. *1535 Columbia Street, N. W.*

1899, Dec. MARTIN, EMILIE NORTON, Ph.D. (Bryn Mawr). Montreat, N. C.

1903, Dec. MARTIN, LOUIS ADOLPHE, JR., M.E., M.A.; Instructor in Mathematics and Mechanics, Stevens Institute, Hoboken, N. J. *824 Bloomfield Street.*

1893, Feb. MASCHKE, HEINRICH, Ph.D. (Göttingen); Member of the Deutsche Mathematiker-Vereinigung; Associate Professor of Mathematics, University of Chicago, Chicago, Ill.

1903, Oct. *MASON, MAX, B.L., Ph.L. (Göttingen); Member of the Deutsche Mathematiker-Vereinigung; Assistant Professor of Mathematics, Sheffield Scientific School, Yale University, New Haven, Conn.

1905, Dec. MAXSON, ARTHUR RAY, B.A., M.A.; Tutor in Mathematics, Columbia University, New York, N. Y.

1892, Mar. MENDIZÁBAL-TAMBORREL, JOAQUIN DE, M.A., D.Sc., Geographical and Military Engineer; Member of the London Mathematical Society; Member of the Société Mathématique de France; F.R.A.S.; Member of the Astronomische Gesellschaft; Captain of Engineer Corps. *Sociedad "Alzate," Palma No. 13,* Mexico, D. F., Mexico.

Date of Admission.		
1903,	Oct.	*Merrill, Helen Abbot, B.A., Ph.D. (Yale); Member of the Deutsche Mathematiker-Vereinigung; Associate Professor of Mathematics, Wellesley College, Wellesley, Mass.
1891,	Apr.	Merriman, Mansfield, C.E., Ph.D.; Professor of Civil Engineering, Lehigh University, South Bethlehem, Pa.
1889,	June	Messenger, Hiram John, Lit.B., Ph.D.; F.A.S.; Actuary of the Travelers Insurance Company, Hartford, Conn.
1891,	Oct.	*Metzler, William H., B.A., Ph.D. (Clark); Fellow of the Royal Society of Edinburgh; Corresponding Fellow of the Royal Society of Canada; Member of the London Mathematical Society; Member of the Société Mathématique de France; Member of the Deutsche Mathematiker-Vereinigung; Francis H. Root Professor of Mathematics, Syracuse University, Syracuse, N. Y.
1891,	May	Miller, Ephraim, M.A., Ph.D.; Member of the Astronomical and Astrophysical Society of America; Professor of Mathematics and Astronomy, University of Kansas, Lawrence, Kan. *1244 Tennessee Street.*
1903,	Oct.	Miller, Ernest Allen, B.Sc., M.A.; Instructor in Mathematics, Massachusetts Institute of Technology, Boston, Mass. *133 Salisbury Road*, Brookline, Mass.
1898,	Apr.	*Miller, George A., Ph.D.; Member of the London Mathematical Society; Member of the Société Mathématique de France; Member of the Deutsche Mathematiker-Vereinigung; Associate Professor of Mathematics, Stanford University, Cal. *P. O. Box 783.*
1899,	Oct.	Miller, John Anthony, M.A., Ph.D. (Chicago); Member of the Astronomical and Astrophysical Society of America; Professor of Mechanics and Astronomy, University of Indiana, Bloomington, Ind. *Escondite.*
1900,	Dec.	Mitchell, Henry Bedinger, E.E., M.A.; Adjunct Professor of Mathematics, Columbia University, New York, N. Y. *Linden Hill, Flushing.*
1904,	Sept.	Moncreiff, William Franklin, Sr., M.A., Ph.D. (Chicago); Professor of Mathematical Physics and Astronomy, Winthrop Normal and Industrial College, Rock Hill, S. C.
1905,	Apr.	Monroe, Walter Scott, B.A.; Principal of the Vandalia High School, Vandalia, Mo.
1891,	May	Moody, William Albion, M.A.; Professor of Mathematics, Bowdoin College, Brunswick, Me. *60 Federal Street.*

Date of Admission.		
1903,	Feb.	MOORE, CLARENCE LEMUEL ELISHA, B.Sc., M.A., Ph.D. (Cornell); Instructor in Mathematics, Massachusetts Institute of Technology, Boston, Mass. *468 Boylston Street.*
1891,	May	*MOORE, ELIAKIM HASTINGS, B.A., Ph.D. (Yale, Göttingen honorary), LL.D.; EX-PRESIDENT; Member of the National Academy of Sciences; Member of the London Mathematical Society; Member of the Circolo Matematico di Palermo; Member of the Deutsche Mathematiker-Vereinigung; Editor of the *Transactions of the American Mathematical Society;* Professor and Head of the Department of Mathematics, University of Chicago, Chicago, Ill. *5607 Monroe Avenue.*
1905,	Apr.	MOREHEAD, JAMES CADDALL, M.A., M.Sc., Ph.D. (Yale); Instructor in Mathematics, Northwestern University, Evanston, Ill. *725 Emerson Street.*
1902,	Apr.	MORENO, HALCOTT C., M.A., Ph.D. (Clark); Assistant Professor of Applied Mathematics, Stanford University, Palo Alto, Cal. *P. O. Box 92.*
1904,	Dec.	MORITZ, ROBERT EDOUARD, B.Sc., Ph.D. (Strassburg); Professor of Mathematics, University of Washington, Seattle, Wash.
1891,	May	MORLEY, FRANK, M.A., Sc.D. (Cambridge); Member of the London Mathematical Society; Editor of the *Bulletin of the American Mathematical Society;* Editor of the *American Journal of Mathematics;* Professor of Mathematics, Johns Hopkins University, Baltimore, Md.
1904,	Apr.	MORRISON, FRANK MARION, B.A.; Assistant Professor of Mathematics, University of Washington, Seattle, Wash. *4719 15th Avenue, N. E.*
1900,	Feb.	MOULTON, FOREST RAY, B.A., Ph.D. (Chicago); F.R.A.S.; Member of the Astronomical and Astrophysical Society of America; Associate Editor of the *Journal of Geography;* Assistant Professor of Astronomy, University of Chicago, Chicago, Ill.
1900,	Dec.	*MUKHOPÂDHYÁY, ASUTOSH, M.A., LL.D.; Member of the Société Mathématique de France; Member of the Edinburgh Mathematical Society; Member of the Circolo Matematico di Palermo; F.R.A.S.; Examiner in Mathematics and Member of the Syndicate, University of Calcutta; Professor of Mathematics at the Indian Association for the Cultivation of Science. *77 Russa Road North,* Bhowanipore, Calcutta, India.

Date of Admission.

1898, Oct. MULLEN, LORING BLANCHARD, Ph.D.; Instructor in Mathematics, Morris High School, New York, N. Y.

1890, Dec. MURRAY, DANIEL ALEXANDER, B.A., Ph.D. (Johns Hopkins); Professor of Mathematics, Dalhousie College, Halifax, Nova Scotia, Canada.

1904, Apr. MYERS, GEORGE WILLIAM, M.L., Ph.D. (Munich); Member of the Astronomische Gesellschaft; Member of the Astronomical and Astrophysical Society of America; Professor of the Teaching of Mathematics and Astronomy, University of Chicago, Chicago, Ill. *6444 Greenwood Avenue.*

1903, Aug. NEIKIRK, LEWIS IRVING, M.Sc., Ph.D. (Pennsylvania); Instructor in Mathematics, University of Illinois, Champaign, Ill. *310 East Green Street.*

1891, June NELSON, ALFRED BRIERLEY, M.A., M.D.; Professor of Mathematics, Centre College, Danville, Ky. *443 West Lexington Avenue.*

1895, Dec. NEUFELD, JULIUS L., E.E.; Professor of Mathematics, Central High School, Philadelphia, Pa. *140 North Broad Street.*

1891, Nov. NEWCOMB, SIMON, D.Sc., Ph.D., LL.D., D.C.L.; EX-PRESIDENT; Member of the National Academy of Sciences; Foreign Member of the Royal Society of London; Foreign Associate of the Institute of France; Foreign Associate of the Royal Astronomical Society; President of the Astronomical and Astrophysical Society of America; Co-editor of the *American Journal of Mathematics;* Emeritus Professor of Mathematics and Astronomy, Johns Hopkins University; Professor of Mathematics, U. S. Navy, retired. *1620 P Street,* Washington, D. C.

1904, Dec. NEWKIRK, BURT LEROY, M.A., Ph.D. (Munich); Member of the Astronomische Gesellschaft; Member of the Deutsche Mathematiker-Vereinigung; Editor of the *Publications of the Astronomical Society of the Pacific;* Instructor in Mathematics, University of California, Berkeley, Cal. *Students' Observatory.*

1895, Oct. NEWSON, HENRY BYRON, M.A., Ph.D.; Member of the Circolo Matematico di Palermo; Member of the Deutsche Mathematiker-Vereinigung; Editor of the *Kansas University Science Bulletin;* Professor of Mathematics, University of Kansas, Lawrence, Kan.

Date of Admission.		
1897,	Jan.	NEWSON, MARY WINSTON, B.A., Ph.D. (Göttingen). *1702 Massachusetts Street*, Lawrence, Kan.
1899,	Aug.	NICHOLS, THOMAS FLINT, B.A., Ph.D. (Clark); Professor of Applied Mathematics, Hamilton College, Clinton, N. Y.
1900,	Dec.	NICHOLS, WALTER SMITH, M.A.; F.A.S.; Editor of the *Insurance Monitor* and *Insurance Law Journal*. *100 William Street*, New York, N. Y.
1899,	Dec.	NOBLE, CHARLES ALBERT, B.Sc., Ph.D. (Göttingen); Assistant Professor of Mathematics, University of California, Berkeley, Cal. *2731 Durant Avenue.*
1891,	Dec.	OLDS, GEORGE DANIEL, M.A.; Professor of Mathematics, Amherst College, Amherst, Mass.
1905,	Oct.	OLSON, HENRY NATHANIEL, B.A.; Instructor in Mathematics, Bethany College, Lindsborg, Kan. *P. O. Box 288.*
1891,	Apr.	OSBORNE, GEORGE ABBOTT, B.Sc.; Walker Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass.
1895,	Feb.	OSGOOD, WILLIAM FOGG, M.A., Ph.D. (Erlangen); Member of the National Academy of Sciences; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Professor of Mathematics, Harvard University, Cambridge, Mass. *60 Walker Street.*
1900,	Dec.	PAGE, JAMES MORRIS, M.A., Ph.D. (Leipzig); Professor of Mathematics and Dean of the Academic Faculty, University of Virginia, Charlottesville, Va.
1897,	May	PALMIÉ, ANNA HELENE, B.Ph.; Professor of Mathematics, College for Women, Western Reserve University, Cleveland, O. *2733 Euclid Avenue.*
1894,	Mar.	PARTRIDGE, EDWARD ANSON, B.Sc., M.A., Ph.D.; Professor of Physics, Central Manual Training School, Philadelphia, Pa. *17th and Wood Streets.*
1896,	Dec.	PATTERSON, JAMES LAWSON, B.Ph., D.Sc. (Princeton); Head Master of Chestnut Hill Academy, Chestnut Hill, Philadelphia, Pa.
1891,	May	PEIRCE, BENJAMIN OSGOOD, Ph.D. (Leipzig); Hollis Professor of Mathematics and Natural Philosophy, Harvard University, Cambridge, Mass. *The Jefferson Physical Laboratory.*

Date of Admission.		
1898,	Oct.	PEIRCE, JAMES MILLS, M.A.; Member of the Deutsche Mathematiker-Vereinigung; Perkins Professor of Astronomy and Mathematics, Harvard University, Cambridge, Mass. *4 Kirkland Place.*
1898,	Oct.	PELL, ALEXANDER, Ph.D. (Johns Hopkins); Professor of Mathematics, University of South Dakota, Vermillion, S. D.
1893,	Oct.	PETTEGREW, DAVID LYMAN, General Special Agent of the Massachusetts Mutual Life Insurance Company, Springfield, Mass. *P. O. Box 75, Worcester, Mass.*
1892,	Oct.	PFISTER, JOSEPH CLEMENT, M.A.; Adjunct Professor of Mechanics, Columbia University, New York, N. Y.
1896,	Nov.	PHILLIPS, ANDREW WHEELER, M.A., Ph.D. (Yale); Professor of Mathematics and Dean of the Graduate School, Yale University, New Haven, Conn. *209 York Street.*
1903,	Aug.	PIERCE, ARCHIE BURTON, B.Sc., M.A., Ph.D. (Zurich); Member of the Deutsche Mathematiker-Vereinigung; Instructor in Mathematics, University of Michigan, Ann Arbor, Mich. *403 East Washington Street.*
1894,	Oct.	PIERPONT, JAMES, Ph.D. (Vienna); Member of the Société Mathématique de France; Member of the London Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, Yale University, New Haven, Conn. *42 Mansfield Street.*
1889,	Dec.	PIERSON, ISRAEL CORIELL, M.A., Ph.D.; Member of the Actuarial Society of America; Consulting Actuary. *141 Broadway,* New York, N. Y.
1905,	Feb.	PLIMPTON, GEORGE ARTHUR, B.A.; Trustee of Amherst College; Treasurer of Barnard College. Ginn and Company, *70 Fifth Avenue,* New York, N. Y.
1892,	Nov.	PLUMLEY, GARDNER LADD; Member of the Actuarial Society of America; Assistant Actuary of the Home Life Insurance Company. *847 Quincy Avenue,* Scranton, Pa.
1905,	Feb.	PONZER, ERNEST WILLIAM, B.Sc., M.Sc.; Instructor in Mathematics, University of Illinois, Champaign, Ill. *708 South Fourth Street.*
1890,	Dec.	POOR, CHARLES LANE, Ph.D. (Johns Hopkins); Member of the Astronomische Gesellschaft; F.R.A.S.; Editor of the *Annals of the New York Academy of Sciences;* Professor of Astronomy, Columbia University, New York, N. Y. *4 East 48th Street.*

Date of Admission.		
1905,	Sept.	POOR, JOHN MERRELL, B.A., Ph.D (Princeton); Member of the Astronomical and Astrophysical Society of America; Instructor in Astronomy, Dartmouth College, Hanover, N. H.
1897,	Feb.	PORTER, MILTON BROCKETT, B.Sc., M.A., Ph.D. (Harvard); Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, University of Texas, Austin, Texas. *1908 University Avenue.*
1892,	May	PRENTISS, ROBERT WOODWORTH, M.Sc.; Professor of Mathematics and Astronomy, Rutgers College, New Brunswick, N. J. *122 Bayard Street.*
1889,	Dec.	*PUPIN, MICHAEL IDVORSKY, B.A., Ph.D. (Berlin); Professor of Electro-Mechanics, Columbia University, New York, N. Y.
1891,	June	PURYEAR, CHARLES, B.Sc., M.A., C.E.; Professor of Mathematics, Agricultural and Mechanical College of Texas, College Station, Texas.
1902,	Apr.	PUTNAM, THOMAS MILTON, M.Sc., Ph.D. (Chicago); Instructor in Mathematics, University of California, Berkeley, Cal.
1903,	Dec.	RAGSDALE, VIRGINIA, B.A. Jamestown, N. C.
1894,	Mar.	RAND, JOHN HOLMES, M.A.; Professor of Mathematics, Bates College, Lewiston, Me. *28 Frye Street.*
1904,	Oct.	RANUM, ARTHUR, B.A.; Assistant in Applied Mathematics, Stanford University, Palo Alto, Cal. *207 Hawthorne Avenue.*
1903,	Dec.	RASOR, S. EUGENE, B.Sc., M.A.; Instructor in Mathematics, Ohio State University, Columbus, Ohio.
1891,	Dec.	RAYSON, AMY, B.A.; Joint Principal of School for Girls, New York, N. Y. *176 West 75th Street.*
1905,	Feb.	*REDDICK, HARRY WILFRED, B.A.; Fellow in Mathematics, University of Illinois, Urbana, Ill. *905 West Green Street.*
1900,	Apr.	REID, LEGH WILBER, B.A., M.Sc., Ph.D. (Göttingen); Associate Professor of Mathematics, Haverford College, Haverford, Pa.
1903,	Feb.	REYNOLDS, FREDERICK GREGORY, B.Sc., LL.B., M.Sc., Sc.D.; Instructor in Mathematics, College of the City of New York, New York, N. Y. *17 Lexington Avenue.*
1893,	Apr.	RICE, CHARLES MOEN, B.A. *P. O. Box 215*, Worcester, Mass.

Date of Admission.		
1905,	Apr.	RICHARDSON, R. G. D., B.A., M.A.; Member of the Deutsche Mathematiker-Vereinigung; Instructor in Mathematics, Yale University, New Haven, Conn. *120 York Street.*
1905,	Apr.	RICHARDSON, SOPHIA FISKE, B.A.; Instructor in Mathematics, Vassar College, Poughkeepsie, N. Y.
1899,	Aug.	*RICHMOND, HERBERT WILLIAM, M.A.; Fellow of the Cambridge Philosophical Society; Member of the London Mathematical Society; Fellow and Lecturer of King's College, and University Lecturer, Cambridge University, Cambridge, England.
1902,	Oct.	RIETZ, HENRY LEWIS, B.Sc., Ph.D. (Cornell); Assistant Professor of Mathematics, University of Illinois, Urbana, Ill. *805 South Goodwin Avenue.*
1903,	Apr.	RIGGS, NORMAN C., M.Sc.; Associate Professor of Mathematics, Armour Institute of Technology, Chicago, Ill.
1891,	May	ROCKWOOD, CHARLES GREENE, JR., M.A., Ph.D. (Yale); Emeritus Professor of Mathematics, Princeton University, Princeton, N. J. *34 Bayard Lane.*
1896,	Apr.	ROE, EDWARD DRAKE, JR., M.A., Ph.D. (Erlangen); Member of the Deutsche Mathematiker-Vereinigung; John Raymond French Professor of Mathematics, Syracuse University, Syracuse, N. Y. *105 Ostrander Avenue.*
1902,	Apr.	ROEVER, WILLIAM HENRY, B.Sc., M.A.; Instructor in Mathematics, Massachusetts Institute of Technology, Boston, Mass. *112 Newbury Street.*
1897,	Feb.	ROTHROCK, DAVID ANDREW, M.A., Ph.D. (Leipzig); Member of the Deutsche Mathematiker-Vereinigung; Junior Professor of Mathematics, University of Indiana, Bloomington, Ind.
1904,	Feb.	RUNNING, THEODORE RUDOLPH, M.Sc., Ph.D. (Wisconsin); Instructor in Mathematics, University of Michigan, Ann Arbor, Mich. *1108 Prospect Street.*
1903,	Aug.	RUSK, WILLIAM JAMES, M.A.; Professor of Mathematics, Iowa College, Grinnell, Ia. *1022 Park Street.*
1898,	Aug.	SAFFORD, FREDERICK HOLLISTER, M.A., Ph.D. (Harvard); Instructor in Mathematics, University of Pennsylvania, Philadelphia, Pa. *College Hall.*
1897,	Dec.	SAUREL, PAUL LOUIS, B.Sc., D.Sc. (Bordeaux); Assistant Professor of Mathematics, College of the City of New York. *17 Lexington Avenue,* New York, N. Y.

Date of Admission.		
1891,	Nov.	SAYRE, HERBERT ARMISTEAD, B.E., Ph.D. (Johns Hopkins); Professor of Physics, University of Alabama, University, Ala.
1892,	Feb.	*SCHMIEDEL, OSCAR, B.Sc., M.A.; Professor of Mathematics, Bellevue College, Bellevue, Neb.
1900,	Oct.	SCHOTTENFELS, IDA MAY, M.A. *1230 Amsterdam Avenue*, New York, N. Y.
1892,	Apr.	SCHULTZE, ARTHUR, Ph.D.; Assistant Professor of Mathematics, New York University; Head of the Mathematical Department, High School of Commerce, New York, N. Y.
1893,	Oct.	SCHWATT, ISAAC J., Ph.D.; Member of the Deutsche Mathematiker-Vereinigung; Assistant Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa.
1891,	May	SCOTT, CHARLOTTE ANGAS, D.Sc. (London); Member of the London Mathematical Society; Member of the Edinburgh Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Honorary Member of the Amsterdam Mathematical Society; Co-Editor of the *American Journal of Mathematics;* Professor of Mathematics, Bryn Mawr College, Bryn Mawr, Pa.
1902,	Oct.	SCOTT, GEORGE HARVEY, M.A.; Professor of Mathematics and Astronomy and Principal of the Academy, Yankton College, Yankton, S. D.
1889,	June	SEARLE, REV. GEORGE MARY, M.A., Ph.D. Catholic University, Washington, D. C.
1895,	Aug.	SEE, THOMAS JEFFERSON JACKSON, M.A., Ph.D. (Berlin); Member of the Astronomische Gesellschaft; F.R.A.S.; Member of the Société Mathématique de France; Member of the London Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Member of the American Philosophical Society; Professor of Mathematics, U. S. Navy, Mare Island, Cal. *Naval Observatory.*
1902,	Feb.	SÉGUIER, JEAN ARMAND MARIE JOSEPH DE, D.Sc.; Member of the Société Mathématique de France. *56 Rue des Saints Pères*, Paris, France.
1899,	Aug.	SELLEW, GEORGE TUCKER, M.A., Ph.D.; Professor of Mathematics, Knox College, Galesburg, Ill.
1892,	June	SHACK, FERDINAND, B.Sc., M.A., LL.B. *52 Wall Street*, New York, N. Y.

Date of Admission.		
1905,	Apr.	SHARPE, FRANCIS ROBERT, B.A.; Assistant in Mathematics, Cornell University, Ithaca, N. Y. *215 Dryden Road.*
1891,	Apr.	SHATTUCK, SAMUEL WALKER, B.Sc., M.A., C.E.; Professor of Mathematics, University of Illinois, Champaign, Ill.
1894,	Mar.	SHAW, JAMES BYRNIE, M.Sc., D. Sc.; Professor of Mathematics, James Millikin University, Decatur, Ill. *1258 West Macon Street.*
1905,	Feb.	SINCLAIR, MARY EMILY, M.A.; Instructor in Mathematics, University of Nebraska, Lincoln, Neb.
1904,	Oct.	SISAM, CHARLES HERSCHEL, M.A.; Member of the Deutsche Mathematiker-Vereinigung; Instructor in Mathematics, U. S. Naval Academy, Annapolis, Md. *199 Hanover Street.*
1899,	Aug.	SKINNER, ERNEST BROWN, B.A., Ph.D. (Chicago); Assistant Professor of Mathematics, University of Wisconsin, Madison, Wis. *210 Lathrop Street.*
1899,	Oct.	SLAUGHT, HERBERT ELLSWORTH, M.A., Ph.D. (Chicago); Assistant Professor of Mathematics, University of Chicago, Chicago, Ill. *5535 Monroe Avenue.*
1901,	Apr.	SLOCUM, STEPHEN ELMER, B.E., Ph.D. (Clark); Assistant Professor of Mathematics, University of Illinois, Urbana, Ill.
1904,	Oct.	SMITH, ADELAIDE; Lecturer on Mathematics, Huguenot College, Wellington, Cape Colony, S. A.
1905,	Feb.	SMITH, ARTHUR WHIPPLE, M.Sc., Ph.D.; Instructor in Mathematics, Colgate University, Hamilton, N. Y.
1900,	Oct.	SMITH, BURKE, B.Sc., Ph.D. (Yale); Instructor in Mathematics, Purdue University, Lafayette, Ind. *110 South Ninth Street.*
1904,	Sept.	SMITH, CLARA ELIZA, B.A., Ph.D. (Yale). Northford, Conn. *22 Lynnwood Place, New Haven, Conn.*
1893,	Oct.	SMITH, DAVID EUGENE, M.Ph., Ph.D., LL.D.; Member of the Deutsche Mathematiker-Vereinigung; Editor of the *Bulletin of the American Mathematical Society;* Professor of Mathematics, Teachers College, Columbia University, New York, N. Y.
1898,	Apr.	SMITH, EUGENE RANDOLPH, M.A.; Instructor in Mathematics, Montclair High School, Montclair, N. J. *36 Park Street.*
1905,	Oct.	SMITH, FRANKLIN HANS, B.A., M.A.; Instructor in Mathematics, Southwestern Christian College, Denton, Tex. *P. O. Box 762.*

Date of Admission.		
1891,	Nov.	SMITH, PERCEY FRANKLYN, Ph.D.; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, Sheffield Scientific School, Yale University, New Haven, Conn. *78 Pearl Street.*
1891,	Apr.	SMITH, WILLIAM BENJAMIN, M.A., Ph.D. (Göttingen); Professor of Mathematics, Tulane University, New Orleans, La.
1904,	Oct.	SNELLING, CHARLES MERCER, Graduate of the Virginia Military Institute, M.A.; Junior Professor of Mathematics, University of Georgia, Athens, Ga. *P. O. Box 361.*
1889,	Dec.	SNOOK, THOMAS EDWARD, M.E.; Architect and Engineer. *261 Broadway,* New York, N. Y.
1895,	Apr.	SNYDER, MONROE BENJAMIN, M.A.; Member of the Astronomische Gesellschaft; F.R.A.S.; Professor of Astronomy and Applied Mathematics and Head of the Department of Mathematics, Central High School, Philadelphia, Pa.; Director of the Philadelphia Observatory. *2402 North Broad Street.*
1896,	Nov.	SNYDER, VIRGIL, M.A., Ph.D. (Göttingen); Member of the Deutsche Mathematiker-Vereinigung; Editor of the *Bulletin of the American Mathematical Society;* Assistant Professor of Mathematics, Cornell University, Ithaca, N. Y. *214 University Avenue.*
1892,	May	SQUIER, GEORGE OWEN, Ph.D. (Johns Hopkins); Major, Signal Corps, U. S. Army; Chief Signal Officer, Department of California, *Phelan Building,* San Francisco, Cal.
1888,	Nov.	STABLER, EDWARD LINCOLN, M.A., Ph.D. (Columbia); U. S. Leather Co., *26 Ferry Street,* New York, N. Y.
1894,	Nov.	*STECKER, HENRY FREEMAN, M.Sc., Ph.D.; Member of the Deutsche Mathematiker-Vereinigung; Instructor in Mathematics, Pennsylvania State College, State College, Pa. *Lock Box 305.*
1891,	Jan.	STEINMETZ, CHARLES PROTEUS, Ph.D; Consulting Engineer of the General Electric Company; Professor of Electrical Engineering, Union University, Schenectady, N. Y.
1891,	June	ST. JOHN, HOWELL WILLIAMS, Ph.B.; Member of the Actuarial Society of America; Corresponding Member of the Institut des Actuaires Français; Member of the American Statistical Association; Actuary of the Ætna Life Insurance Company, Hartford, Conn. *P. O. Box 913.*

Date of Admission.

1891, May STONE, ORMOND, M.A.; Editor of the *Annals of Mathematics;* Director of the Leander McCormick Observatory and Professor of Practical Astronomy, University of Virginia, Charlottesville, Va.

1897, Feb. STORY, WILLIAM EDWARD, B.A., Ph.D. (Leipzig); Member of the London Mathematical Society; Professor of Mathematics, Clark University, Worcester, Mass.

1902, Apr. STRINGHAM, IRVING, B.A., Ph.D. (Johns Hopkins); Professor of Mathematics and Dean of the College of Social Sciences, University of California, Berkeley, Cal. *The Owl's Nest, Prospect Avenue.*

1903, Feb. STROMQUIST, CARL EBEN, B.Sc., Ph.D. (Yale); Instructor in Mathematics, John C. Green School of Science, Princeton University, Princeton, N. J.

1895, Dec. STRONG, WENDELL MELVILLE, LL.B., M.A., Ph.D. (Yale); Member of the Actuarial Society of America; Assistant Actuary of the Mutual Life Insurance Company of New York. *32 Nassau Street, New York, N. Y.*

1904, Oct. STUDY, EDUARD, Ph.D.; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, University of Bonn, Bonn, Germany. *Goebenstrasse 28.*

1903, Apr. SWARTZEL, KARL DALE, M.Sc.; Assistant Professor of Mathematics, Ohio State University, Columbus, Ohio. *308 West 8th Avenue.*

1904, Apr. SWIFT, ELIJAH, M.A. *Maschmühlenweg 6, Göttingen, Germany.*

1891, May *TABER, HENRY, B.Ph., Ph.D. (Johns Hopkins); Member of the London Mathematical Society; Professor of Mathematics, Clark University, Worcester, Mass.

1900, Dec. TALIAFERRO, THOMAS HARDY, C.E., Ph.D. (Johns Hopkins). *1003 McCulloch Street,* Baltimore, Md.

1901, Oct. TALLMAN, WILLIAM DUANE, B.Sc.; Professor of Mathematics, Montana State College of Agriculture and Mechanic Arts, Bozeman, Mon. *726 Third Avenue South.*

1896, Nov. *TANNER, JOHN HENRY, B.Sc., Ph.D.; Professor of Mathematics, Cornell University, Ithaca, N. Y. *Cornell Heights.*

1903, Oct. TAYLOR, EDSON HOMER, B.Sc., M.A.; Teacher of Mathematics, Eastern Illinois State Normal School, Charleston, Ill. *66 Oxford Street, Cambridge, Mass.*

1891, Apr. TAYLOR, JAMES MORFORD, M.A., LL.D.; Professor of Mathematics, Colgate University, Hamilton, N. Y.

Date of Admission.

1903, Feb. TAYLOR, WILLIAM ERASTUS, M.Ph.; Ph.D. (Syracuse); Associate Professor of Mathematics, Syracuse University, Syracuse, N. Y. *722 Irving Avenue.*

1899, Oct. THOMPSON, EDWARD PAYSON, M.A. Riverside, Cal.

1891, Apr. *THOMPSON, HENRY DALLAS, M.A., D.Sc., Ph.D.; Professor of Mathematics, Princeton University, Princeton, N. J. *11 Morven Street.*

1897, Jan. THORNBURG, CHARLES LEWIS, B.Sc., C.E., Ph.D.; Professor of Mathematics and Astronomy, Lehigh University, South Bethlehem, Pa. *308 Packer Avenue.*

1901, Oct. TORY, HENRY M., M.A., D.Sc., LL.D.; Associate Professor of Mathematics, McGill University, Montreal, Canada.

1902, Apr. TOWNLEY, SIDNEY DEAN, M.Sc., Sc.D. (Michigan); Editor of the *Publications of the Astronomical Society of the Pacific;* Lecturer in Astronomy, University of California; Astronomer in charge of the International Latitude Observatory, Ukiah, Cal.

1895, Nov. TOWNSEND, EDGAR JEROME, M.A., Ph.D. (Göttingen); Professor of Mathematics and Acting Dean of the College of Science, University of Illinois, Champaign, Ill. *510 John Street.*

1905, Dec. TRAVIS, JOHN FRANCIS, B.A., M.A.; Adjunct Professor of Mathematics, Georgia School of Technology, Atlanta, Ga.

1903, Aug. TRUEBLOOD, MARY ESTHER, M.Ph.; Instructor in Mathematics, Mount Holyoke College, South Hadley, Mass. *6 Maple Street, Springfield, Mass.*

1894, Aug. TYLER, HARRY WALTER, B.Sc., Ph.D. (Erlangen); Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics and Secretary of the Faculty, Massachusetts Institute of Technology, Boston, Mass.

1897, Dec. UNDERHILL, MARY, M.Sc. *132½ East 19th Street,* New York, N. Y.

1903, Aug. UPTON, CLIFFORD BREWSTER, B.A.; Assistant in Mathematics, Teachers College, Columbia University; Instructor in Mathematics, Horace Mann High School, New York, N. Y.

1888, Nov. VAN AMRINGE, J. HOWARD, M.A., Ph.D. L.H.D., LL.D.; EX-PRESIDENT; Professor of Mathematics and Dean of Columbia College, Columbia University, New York, N. Y. *48 East 26th Street.*

Date of Admission.

1903, Oct. VAN BENSCHOTEN, ANNA LAVINIA, M.Sc.; Professor of Mathematics, Wells College, Aurora, N. Y.

1902, Feb. VAN DER HEYDEN, ALEXANDER FREDERICK, M.A.; Fellow of the University of Durham; Member of the Mathematical Association; Mathematical Master, Middlesbrough High School, Middlesbrough, England. *3 St. John's Terrace.*

1902, Oct. VAN DER VRIES, JOHN N., M.A., Ph.D. (Clark); Assistant Professor of Mathematics, University of Kansas, Lawrence, Kansas. *925 Kentucky Street.*

1903, Feb. VAN ORSTRAND, CHARLES EDWIN, M.Sc.; U. S. Geological Survey, Washington, D. C.

1893, Apr. VAN VLECK, EDWARD BURR, M.A., Ph.D. (Göttingen); Member of the Société Mathématique de France; Member of the Deutsche Mathematiker-Vereinigung; Editor of the *Transactions of the American Mathematical Society;* Professor of Mathematics, Wesleyan University, Middletown, Conn.

1891, Apr. VAN VLECK, JOHN MONROE, M.A., LL.D.; Member of the Astronomische Gesellschaft; Emeritus Professor of Mathematics and Astronomy, Wesleyan University, Middletown, Conn.

1900, June VAUGHN, WILLIAM JAMES, M.A., LL.D.; Professor of Mathematics and Astronomy, Vanderbilt University, Nashville, Tenn.

1903, Aug. VEBLEN, OSWALD, B.A., Ph.D. (Chicago); Member of the Circolo Matematico di Palermo; Assistant Professor of Mathematics, Princeton University, Princeton, N. J. *23 Madison Street.*

1900, Dec. VIVIAN, ROXANA HAYWARD, B.A., Ph.D. (Pennsylvania); Instructor in Mathematics, Wellesley College, Wellesley, Mass. *106 Gordon Avenue, Hyde Park, Mass.*

1905, Dec. VOLTERRA, VITO, Phys.D. (Pisa), Math.D. (Christiania), Sc.D. (Cambridge); Senator of the Kingdom of Italy; Member of the Italian Society of Sciences; Member of the Reale Accademia dei Lincei; Member of the Reale Accademia delle Scienze di Torino; Corresponding Member of the Institute of France; Corresponding Member of the Reale Istituto Lombardo di Scienze e Lettere; Corresponding Member of the Reale Accademia delle Scienze; Corresponding Member of the Istituto di Bologno; Corresponding Member of the Reale Accademia delle Scienze, Lettere ed Arti di Modena; Member of the Société Mathématique de

Date of Admission.

France; Member of the Deutsche Mathematiker-Vereinigung; Member of the Directive Council of the Circolo Matematico di Palermo: Professor of Mathematical Physics and Celestial Mechanics, University of Rome, Rome, Italy. *Via in Lucina, 17.*

1905, Dec. WADDELL, MARY EVELYN GERTRUDE, B.A., M.A. Orono, Ontario, Canada.

1891, Oct. WAIT, LUCIEN AUGUSTUS, B.A.; Professor of Mathematics, Cornell University, Ithaca, N. Y. *The Circle.*

1891, Apr. WALDO, CLARENCE ABIATHAR, M.A., Ph.D.; Head Professor of Mathematics, Purdue University, Lafayette, Ind. *806 South Street.*

1898, Dec. WALKER, BUZZ M., M.Sc.; Professor of Mathematics and Director of the School of Engineering, Mississippi Agricultural and Mechanical College, Agricultural College, Miss.

1894, Feb. WALKER, LON CAIN, M.A. *Santa Barbara, California.*

1905, Apr. WALKER, MARY SHORE, B.A., M.A.; Assistant in Mathematics, University of Missouri, Columbia, Mo. *1113 University Avenue.*

1898, Apr. WASHBURNE, ALVA COURTENAY, Member of the Actuarial Society of America; Actuarial Department, Hartford Life Insurance Company. Hartford, Conn.

1902, Apr. WEBB, HARRISON EMMETT, B.A.; Instructor in Mathematics and Science, Stevens School, Hoboken, N. J. *8 Franklin Place, Summit, N. J.*

1891, Oct. WEBB, JOHN BURKITT, C.E.; Professor of Mathematics and Mechanics, Stevens Institute of Technology, Hoboken, N. J.

1891, May WEBSTER, ARTHUR GORDON, B.A., Ph.D. (Berlin), Sc.D. (Tufts); Member of the National Academy of Sciences; Member of the Deutsche Mathematiker-Vereinigung; Professor of Physics, Clark University, Worcester, Mass.

1891, June WEEKS, RUFUS WELLS, President of the Actuarial Society of America; Associate of the Institute of Actuaries; Corresponding Member of the Institut des Actuaires Français; Member of the Deutscher Verein für Versicherungs-Wissenschaft; Second Vice-President and Chief Actuary of the New York Life Insurance Company. *346 Broadway,* New York, N. Y.

Date of Admission.

1892, Feb. WELD, LAENAS GIFFORD, B.Sc., M.A.; Professor of Mathematics and Astronomy and Dean of the Graduate College, State University of Iowa, Iowa City, Ia.

1891, Apr. WELLS, WEBSTER, B.Sc.; Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass.

1891, May WENTWORTH, GEORGE ALBERT, M.A. Exeter, N. H.

1896, Sept. WENTZ, ESTELLA KATE, M.Sc.; Instructor in Mathematics, Manual Training High School, Indianapolis, Ind.

1897, Feb. WERNICKE, AUGUST LUDWIG PAUL, Ph.D. (Göttingen); Member of the Deutsche Mathematiker-Vereinigung; Professor of Modern Languages, State College of Kentucky, Lexington, Ky. *609 South Limestone Street.*

1897, Dec. *WESTERN, ALFRED EDWARD, M.A.; Member of the London Mathematical Society; Fellow of the Cambridge Philosophical Society. *36 Lancaster Gate,* London, W., England.

1902, Dec. WESTFALL, W. D. A., B.A., Ph.D. (Göttingen); Member of the Deutsche Mathematiker-Vereinigung; Instructor in Mathematics, University of Missouri, Columbia, Mo.

1898, Aug. WESTLUND, JACOB, Ph.D. (Yale); Member of the Deutsche Mathematiker-Vereinigung; Associate Professor of Mathematics, Purdue University, Lafayette, Ind. *222 Main Street, West Lafayette.*

1892, Nov. WHITE, HENRY SEELY, B.A., Ph.D. (Göttingen); Member of the Deutsche Mathematiker-Vereinigung; Associate Editor of the *Transactions of the American Mathematical Society;* Editor of the *Bulletin of the American Mathematical Society;* Editor of the *Annals of Mathematics;* Professor of Mathematics, Vassar College, Poughkeepsie, N. Y.

1902, Apr. WHITNEY, ALBERT WURTS, B.A.; Assistant Professor of Mathematics and Insurance Methods, University of California, Berkeley, Cal. *Canyon Road.*

1897, Dec. *WHITTAKER, EDMUND TAYLOR, M.A.; F.R.S.; Member of the London Mathematical Society; Secretary of the Royal Astronomical Society; Associate Editor of the *Mathematical Gazette;* Fellow and Lecturer of Trinity College and University Lecturer, Cambridge, England.

1897, Feb. WHITTEMORE, JAMES KELSEY, M.A.; Instructor in Mathematics, Harvard University, Cambridge, Mass. *56 Dunster Hall.*

Date of Admission.

1899, Feb. WILCZYNSKI, ERNST JULIUS, Ph.D. (Berlin); Assistant Professor of Mathematics, University of California, Berkeley, Cal. *2337 Telegraph Avenue.*

1892, May WILLARD, JOSEPH MOODY, B.A.; Professor of Mathematics, Pennsylvania State College, State College, Center County, Pa.

1895, May WILLIAMS, CLARKE BENEDICT, M.A.; Olney Professor of Mathematics, Kalamazoo College, Kalamazoo, Mich. *516 West South Street.*

1892, May WILLIAMS, ELLA CORNELIA, M.A. *106 West 49th Street,* New York, N. Y.

1905, Sept. WILLIAMS, JOHN EDWARD, B.A., M.A., Ph.D. (Virginia); Professor of Mathematics, Virginia Polytechnic Institute, Blacksburg, Va.

1903, Aug. WILLIAMS, ROLAND HUGH, B.Sc.; Teacher of Mathematics, Horace Mann School, New York, N. Y.

1898, Apr. WILLIAMS, WILLIAM HILL, M.A.; Professor of Mathematics, Wisconsin State Normal School, Platteville, Wis.

1891, May WILLSON, FREDERICK NEWTON, M.A., C.E.; Professor of Descriptive Geometry, Stereotomy, and Technical Drawing, John C. Green School of Science, Princeton University, Princeton, N. J. *P. O. Box 63.*

1901, Oct. WILSON, ALBERT HARRIS, M.Sc.; Associate Professor of Mathematics, Alabama Polytechnic Institute, Auburn, Ala.

1904, Sept. WILSON, DELONZA TATE, M.A., Ph.D. (Chicago); Member of the Astronomical and Astrophysical Society of America; Assistant Professor of Mathematics and Astronomy, Case School of Applied Science, Cleveland, Ohio.

1899, Dec. WILSON, EDWIN BIDWELL, B.A., Ph.D. (Yale); Member of the Deutsche Mathematiker-Vereinigung; Associate Editor of the *Transactions of the American Mathematical Society;* Instructor in Mathematics, Yale University, New Haven, Conn.

1900, Dec. WILSON, NORMAN RICHARD, M.A.; Assistant Professor of Mathematics, Wesley College, University of Manitoba, Winnipeg, Canada.

1903, Oct. WILSON, ROBERT EDWARD, B.Ph., M.A.; Member of the Deutsche Mathematiker-Vereinigung; Instructor in Mathematics, Northwestern University, Evanston, Ill. *1939 Sherman Avenue.*

Date of Admission.		
1899,	Dec.	WOOD, RUTH GOULDING, B.L., Ph.D. (Yale); Instructor in Mathematics, Smith College, Northampton, Mass. *8 Washington Avenue.*
1895,	Oct.	WOODS, FREDERICK S., M.A., Ph.D. (Göttingen); Editor of the *Annals of Mathematics;* Associate Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass. *123 Sumner Street, Newton Centre, Mass.*
1891,	May	WOODWARD, ROBERT SIMPSON, C.E., Ph.D., Sc.D., LL.D.; EX-PRESIDENT; Member of the National Academy of Sciences; Associate Editor of *Science;* President of the Carnegie Institution of Washington. The Carnegie Institution, Washington, D. C.
1891,	May	WORTHEN, THOMAS WILSON DORR, M.A.; Professor of Mathematics, Dartmouth College, Hanover, N. H.
1903,	Dec.	WRIGHT, JOSEPH EDMUND, M.A.; Member of the London Mathematical Society; Fellow of Trinity College, Cambridge, England; Associate in Mathematics, Bryn Mawr College, Bryn Mawr, Pa.
1898,	Oct.	WRIGHT, WALTER CHANNING, Member of the Actuarial Society of America; Consulting Life Insurance Actuary. *45 Milk Street, Room 77,* Boston, Mass.
1902,	Oct.	YANNEY, BENJAMIN FRANKLIN, Professor of Mathematics, Mount Union College, Alliance, Ohio.
1903,	Dec.	YOUNG, ARCHER EVERETT, B.A., Ph.D. (Princeton); Member of the Deutsche Mathematiker-Vereinigung; Instructor in Mathematics, Purdue University, Lafayette, Ind. *712 South Street.*
1891,	May	YOUNG, JACOB WILLIAM ALBERT, M.A., Ph.D. (Clark); Assistant Professor of the Pedagogy of Mathematics, University of Chicago, Chicago, Ill. *5430 Washington Avenue.*
1902,	Feb.	YOUNG, JOHN WESLEY, M.A., Ph.D. (Cornell); Member of the Deutsche Mathematiker-Vereinigung; Collaborator of the *Bulletin des Sciences Mathématiques;* Assistant Professor of Mathematics, Princeton University, Princeton, N. J. *23 Madison Street.*
1902,	Oct.	YOUNG, WILLIAM HENRY, M.A., Sc.D.; Member of the London Mathematical Society; Fellow of the Cambridge Philosophical Society; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Lecturer in Mathematics, University of Liverpool, Liverpool, England. *Wilhelm-Weberstrasse 44A, Göttingen, Germany.*

Date of Admission.

1893, Mar. YOWELL, EVERETT IRVING, M.Sc., C.E.; Computer at the Naval Observatory, Washington, D. C.

1891, Apr. ZIWET, ALEXANDER, C.E.; Member of the Deutsche Mathematiker-Vereinigung; Editor of the *Bulletin of the American Mathematical Society;* Professor of Mathematics, University of Michigan, Ann Arbor, Mich. *644 South Ingalls Street.*

Number of members, January 1, 1906	504
Number of members, January 1, 1905	473
Members admitted during the year 1905	50
Members withdrawing during the year 1905	19
Number of life-members	42

CONSTITUTION.

Article I.

This Society shall be called the American Mathematical Society.

Article II.

The object of the Society shall be to encourage and maintain an active interest in mathematical science.

Article III.

The officers of the Society shall be a President, two Vice-Presidents, a Secretary, a Treasurer, a Librarian, and a Committee of Publication to consist of three members who at the same time may hold individually any of the other offices.

Article IV.

The officers of the Society, the ex-Presidents, and twelve other members of the Society shall constitute a Council, which shall have general charge of the affairs of the Society.

Article V.

1. The officers of the Society and four other members of the Council shall be elected by ballot at the Annual Meeting of each year. An official ballot shall be sent to each member at least one month prior to the Annual Meeting, and such ballots, if returned to the Secretary in envelopes bearing the names of the voters, shall be counted at the Annual Meeting. Each such ballot shall contain a name proposed by the Council for each vacancy, with blank spaces in which the voter may substitute other names. A majority of all votes cast in person or by mail shall be necessary to election. In case of failure to secure a majority for any office, the members present at the Annual Meeting shall choose by ballot between the two having the highest number of votes. The ex-Presidents of the Society shall be permanent members of the Council; the term of office otherwise shall, beginning with the Annual Meeting in 1900, be two years for the President, one year for other officers, and three years for other members of the Council, and until their successors shall be elected. After the Annual Meeting in 1900, for election as President shall be eligible those members of the Society who have served in the office of Vice-President and who are not holding office as President or Vice-President; and for election as Vice-President shall be eligible those members of the Society not holding office as President or

Vice-President. No elected member of the Council, having completed a term of three years, shall be reëlected until at least one year shall have intervened.

2. If the President of the Society die or resign before the expiration of his term of office, the Council may designate one of the Vice-Presidents to serve as Acting President until the next Annual Meeting, when a President shall be elected by the Society. Such vacancies as may exist at any time among the other offices may be filled by the Council. If any elected member of the Council die or resign more than one year before the expiration of his term, the vacancy for the unexpired term shall be filled by the Society at the next Annual Meeting.

Article VI.

This Constitution shall not be amended unless notice of the proposed amendment be sent by mail to every member of the Society at least four weeks in advance of the meeting at which such amendment is to be considered; and such amendment in order to be adopted must receive two-thirds of the votes cast in person and by mail.

BY-LAWS.

I.

The election of new members of the Society shall be by vote of the Council. Application for admission shall be made by the applicant personally, on blanks provided by the Secretary, and shall be endorsed by two members of the Society. Such applications, being received at any meeting of the Council, shall be laid over for action at any subsequent meeting.

II.

1. Persons elected by the Council, as provided in By-Law I, shall be admitted to membership in the Society upon the payment, within sixty days of the date of their election, of an initiation fee of five dollars.

2. The annual dues shall be five dollars, payable on the 1st of January. Each new member shall pay in proportion to the unexpired fraction of the year at the time of his election. Should the annual dues of any member remain unpaid beyond a reasonable time, the Council shall remove his name from the list of members, after due notice.

3. On the payment of fifty dollars in one sum, exclusive of initiation fee, any member not in arrears of dues may become a life member and shall thereafter be exempt from all annual dues.

III.

The times and places of meetings of the Society shall be designated by the Council, but the Annual Meeting shall be held on a date between the 26th and 31st of December, inclusive; and Regular Meetings shall be held on the last Saturday of February, April, and October, unless otherwise ordered by the Council. Notice of the time and place of each meeting shall be sent by the Secretary to all members of the Society.

IV.

Whenever it shall appear to the Council that a sufficient number of members of the Society are desirous of conducting in any locality periodic meetings for the reading and discussion of mathematical papers, the Council may authorize the formation of a Section to be composed at each Sectional meeting of such members of the Society as may be present; and the Council shall have the right to withdraw such authorization.

V.

Papers intended for presentation at any meeting or sectional meeting of the Society shall be passed upon in advance of the meeting by a programme committee appointed by or under the authority of the Council; and only such papers shall be presented as shall have been approved by such committee. Papers in form unsuitable for publication, if accepted for presentation, shall be referred to on the programme as preliminary communications or reports.

VI.

1. The order of business at the meetings of the Society shall be as follows:

1. Reading of the minutes.
2. Recommendations and reports.
3. Elections.
4. Miscellaneous business.
5. Presentation and discussion of papers previously approved by the programme committee.

2. No question relative to administration shall be considered at any meeting except the Annual Meeting without the recommendation of the Council.

VII.

It shall be the duty of each President to deliver an address before the Society at the Annual Meeting at which his term of office expires.

VIII.

1. The President may convoke the Council whenever the affairs of the Society require it.

2. A request in writing from two members of the Council shall render the convocation obligatory.

IX.

1. The Society shall publish a periodical of critical and historical nature, called the BULLETIN OF THE AMERICAN MATHEMATICAL SOCIETY.

2. The BULLETIN shall be in charge of the Committee of Publication, which may associate with itself other members of the Society whose editorial assistance it may require.

X.

1. The Society shall publish a periodical which shall have for its object to make known, as widely as possible, the more important researches presented at the meetings of the Society. This periodical shall be called the TRANSACTIONS OF THE AMERICAN MATHEMATICAL SOCIETY.

2. The editorial management of the TRANSACTIONS shall be entrusted to a committee of three editors, to be appointed by the Council. The three members of the committee appointed in 1899 shall serve respectively until 1902, 1903, and 1904. In and after 1902, annually at the February meeting, the Council shall appoint one member to serve for three years. Members of the committee shall be eligible to reappointment. Vacancies in the committee shall be filled by the Council.

3. The editorial committee shall have power to elect one of its members as editor-in-chief; but if at any time the committee shall report to the Council that it has been unable to agree upon an editor-in-chief, the Council shall designate one of the members of the committee to act as editor-in-chief. The committee shall have power to associate with itself other members of the Society whose editorial assistance it may require.

4. The TRANSACTIONS shall not be distributed free to the members of the Society; but members of the Society shall have the right to subscribe to the TRANSACTIONS at three-fourths of the advertised price.

XI.

No by-law shall be enacted, amended or suspended, except by a two-thirds vote of the members present at a meeting of the Society, and upon the recommendation of the Council.

ANNUAL REPORTS.

REPORT OF THE TREASURER FOR THE YEAR 1905.

Receipts.

Balance from 1904	$3,884.28
Annual dues for 1903	55.00
Annual dues for 1904	270.00
Annual dues for 1905	1,715.00
Annual dues for 1906	5.00
Dues from new members for parts of the year 1903	.83
Dues from new members for parts of the year 1904	7.11
Dues from new members for parts of the year 1905	73.21
Initiation fees for 1903	10.00
Initiation fees for 1904	50.00
Initiation fees for 1905	130.00
Life membership fees	350.00
Sale of reprints	102.42
Sale of Bulletin by the Secretary	13.94
Sale of Bulletin by The Macmillan Company	306.85
Contributions in support of the Transactions:	
Bryn Mawr College	100.00
Columbia University	75.00
Cornell University	75.00
Haverford College	175.00
Northwestern University	75.00
Stanford University	75.00
University of California	100.00
University of Chicago	175.00
University of Missouri	75.00
Wesleyan University	175.00
Yale University	75.00
Sale of Transactions by the Treasurer	311.75
Sale of Transactions by The Macmillan Company	331.20
Sale of Transactions by the Secretary	125.50
Interest on deposit in Fifth Avenue Trust Company	55.65
Interest on deposit in Union Square Savings Bank	55.46
Exchange	6.04
	$9,034.24

DISBURSEMENTS.

Expenses of the Secretary's Office		$ 447.86
Expenses of the Treasurer's Office		47.30
Expenses of the Library		135.39
Expenses of the Committee of Publication		90.16
Expenses of the Editorial Committee of the TRANSACTIONS		185.47
Publication of BULLETIN (thirteen numbers)		2,048.32
Publication of TRANSACTIONS (four numbers)		1,730.74
Publication of Boston Colloquium Lectures		309.06
Annual Register		141.83
Expenses of the Chicago Section		40.67
Expenses of the San Francisco Section		13.00
Exchange		11.43
		$5,201.23
Balance in Fifth Avenue Trust Company	$2,004.48	
Balance in Union Square Savings Bank	1,828.53	
		$3,833.01
		$9,034.24

The Life Membership Fund now amounts to $2,132.58.

WM. S. DENNETT,
Treasurer.

NEW YORK, December 16, 1905.

REPORT OF THE AUDITING COMMITTEE.

The undersigned Auditing Committee, appointed by the American Mathematical Society, have this day examined the accounts of the Treasurer and find the following to be correct:

Balance brought from last year		$3,884.28
Cash receipts during the year 1905		5,149.96
		$9,034.24
Balance in Fifth Avenue Trust Co.	$2,018.46	
Less Outstanding checks	13.98	
	$2,004.48	
Balance in Union Square Savings Bank	1,828.53	
Available balance in both banks		$3,833.01
Disbursements during the year 1905		5,201,23
		$9,034.24

A. C. WASHBURNE,
G. A. BLISS,
Auditing Committee.

NEW YORK, December 16, 1905.

REPORT OF THE LIBRARIAN FOR THE YEAR 1905.

I beg to announce the steady growth of the library during the past year. It would be easy to add to our number of exchanges, and to include certain publications of a technical or engineering nature of value to the Society, but we are embarrassed by lack of funds to bind even the periodicals that come to us at present. Until, therefore, we can secure some endowment to provide for the expense of binding, of completing our sets, and of adding to the number of works for which our members make inquiries, we cannot hope for any marked increase in the size of the library.

Members are again invited to consider the suggestion made from year to year, that gifts of mathematical works, of historic interest as well as of scientific importance, are welcome. In particular, all published works of members of the Society should have a place in our library.

The following table shows the growth of the library in recent years:

	Jan. 1, 1902.	Jan. 1, 1903.	Jan. 1, 1904.	Jan. 1, 1905.	Jan. 1, 1906.
Volumes of periodicals.....	32	695	981	1448	1769
Volumes, non-periodical.....	89	248	354	487	547
Periodicals on exchange list.	64	116	154	155	164

DAVID EUGENE SMITH,
Librarian.

NEW YORK, December 26, 1905.

LIBRARY RULES.

1. Applications for books may be made in person, or by letter addressed to the AMERICAN MATHEMATICAL SOCIETY, 501 West 116th Street, New York. Members may, if they desire, apply in person directly to the superintendent of the loaning department of the Columbia University Library, where the Society's library is deposited. Books will be delivered directly to those applying in person, and will be sent to other applicants by express at the expense of the borrowers.

2. A book may be kept four weeks from the date of leaving the library, but the loan may be renewed from time to time by writing to the Society in advance of the day when the book is due.

3. Borrowers should return the books in person or by prepaid express.

CATALOGUE OF THE LIBRARY.

I. Journals.

In case the Society has already any bound volumes, these are indicated in the list. Where no bound volumes are indicated, the journal has recently been placed upon the exchange list, and only the current unbound numbers are in the library. The journals are listed alphabetically according to the places of publication.

Amsterdam.

Nieuw Archief voor Wiskunde, Ser. 1, Vols. 1–20; Ser. 2, Vols. 1–6 (1875–1905).

Revue semestrielle des Publications mathématiques, Vols. 1–13 (1893–1905). *Tables des Matières*, 1892–1902.

Wiskundige Opgaven met de Oplossingen, Vols. 1–8 (1882–1902).

Baltimore.

American Journal of Mathematics, Vols. 1–27 (1878–1905); Index, Vols. 11–20.

Berlin.

Akademie der Wissenschaften, Abhandlungen (selected mathematical memoirs), 1892–94, 1897, 1901, 1903, 1904; *Sitzungsberichte*, 1857–1868, 1870–1881, 1891–1904; Indexes, 1836–1858, 1859–1873, 1874–1881.

Jahrbuch über die Fortschritte der Mathematik, Vols. 15–33 (1883–1902).

Journal für die reine und angewandte Mathematik, Vols. 96, 97, 109, 125–129 (1884–1905).

Sitzungsberichte der Berliner mathematischen Gesellschaft, Vol. 1.

Unterrichtsblätter für Mathematik und Naturwissenschaften, Vols. 9–10 (1903–1904).

Veröffentlichungen d. K. Preus. Geodätischen Instituts, Vols. 1–2, 11, 19.

Bologna.

Il Bolletino di Matematica, Vols. 1–3 (1902–1904).

R. Accademia delle Scienze, Memorie, Ser. 5, Vols. 8–10; Ser. 6, Vol. 1 (1899–1904); *Rendiconti, New Series*, Vols. 4–8 (1899–1904).

Bordeaux.

Société des Sciences de Bordeaux, Memoires, Ser. 4, Vols. 1–5; Ser. 5, Vols. 1–5; Ser. 6, Vols. 1–3 (1893–1903); *Procès-verbaux*, 1894–1904.

Boston.

American Academy of Arts and Sciences, Proceedings, Vols. 26–40 (1890–1905); *Memoirs*, Vol. 12 (1902).

Technology Quarterly, Vols. 4–17.

BRAY-SUR-SEINE.
Journals des Géomètres-Experts, Vols. 1 3, 9–12 (1893–1905).

BRISBANE, QUEENSLAND.
Proceedings of the Royal Society, Vols. 15–18 (1900–1904).

BRUSSELS.
Annales de la Société Scientifique, Vols. 26–29 (1902–1905); Index, 1875–1901.
Annuaire astronomique de Observatoire Belgique, 1906.
Annuaire de l'Académie Royale, Vols. 68–71 (1902–1905).
Bulletin de la Classe des Sciences de l'Académie Royale, 1902–1904.
Mémoires couronnés et autre Mémoires de l'Académie Royale, Vols. 60–66 (1900–1904).
Mémoires couronnés et Mémoires des Savants étrangers de l'Académie Royale, Vols. 58–62 (1899–1904).

BUCHAREST.
Gazeta Matematica, Vols. 1–10 (1895–1904).

BUDAPEST.
See LEIPZIG.

BUENOS AIRES.
Anales de la Sociedad Cientifica Argentina, Vols. 55–58 (1903–1904).

CAMBRIDGE, ENG.
Cambridge Philosophical Society, Proceedings, Vols. 10–12 (1899–1904); *Transactions*, Vols. 17–19 (1899–1904).

CAMBRIDGE, MASS.
Annals of Mathematics, Ser. 1, Vols. 1–12; Ser. 2, Vols. 1–6 (1884–1905).

CHERBOURG.
Mémoires de la Société Nationale des Sciences naturelles et mathématiques de Cherbourg, Vols. 31–32, 34 (1897–1904).

CHICAGO.
The Astro-Physical Journal, Vols. 1–22 (1895–1905).
The Monist, Vols. 1–7, 9–15 (1890–1905).
The Open Court, Vols. 11–19 (1897–1905).
School Science and Mathematics, Vols. 3–5 (1903–1905).
School Mathematics, Vol 1.

CHRISTIANIA.
Archiv for Mathematik og Naturvidenskab, Vols. 21–26 (1899–1904).
Videnskabs-Selskabet i Christiania, Forhandlinger, 1898–1899, 1901–1904; *Skrifter*, 1898–1904; *Oversigt*, 1899–1900.

CITTÀ DI CASTELLO.
Le Matematiche pure ed applicate, Vols. 1–2 (1901–1903).

COIMBRA.
Jornal de Sciencias mathematicas e astronomicas, Vols. 9–15 (1889–1905).

COPENHAGEN.
Nyt Tidsskrift for Matematik, Ser. A, Vols. 11–16 (1900–1905); Ser. B, Vols. 11–12, 14–15 (1900–1905).
Oversigt d. k. Danske Videnskabernes Selskabs Forhandlinger, 1900–1904.

CRACOW.

Bulletin International de l'Académie des Sciences de Cracovie, 1900–1904.

Katalog, Literatury Naukowej Polskiej, Vols. 2–3.

DES MOINES.

The Analyst, Vol. 10 (1883).

DUBLIN.

Royal Dublin Society, Scientific Proceedings, New Ser., Vols. 1–10 (1878–1902); *Scientific Transactions*, Ser. 2, Vols. 1–8 (1877–1903); Index to *Proceedings and Transactions*, 1877–1898.

EDINBURGH.

Annals of the Royal Observatory, Vol. 1 (1902).

Proceedings of the Mathematical Society of Edinburgh, Vols. 1, 11–23 (1883–1905); Index, Vols. 1–20.

Royal Society of Edinburgh, Proceedings, Vols. 3–4, 10–12, 15–24 (1850–1903); *Transactions*, Vols. 37–39, 42 (1891–1902).

ERLANGEN.

Sitzungsberichte der physicalisch-medicinischen Societät zu Erlangen, Vols. 25–36 (1893–1904).

FORT MONROE.

Journal of the United States Artillery, Vols. 1–23 (1892–1905).

GHENT.

Mathesis, Ser. 1, Vols. 7–10; Ser. 2, Vols. 1–10; Ser. 3, Vols. 1–4 (1897–1904).

GLASGOW.

Proceedings of the Glasgow Philosophical Society, Vol. 30 (1898–1899).

GÖTTINGEN.

Akademie der Wissenschaften, Nachrichten math.-phys. Klasse, 1892–1905; *Geschäftliche Mittheilungen*, 1894–1903, 1905.

GRENOBLE.

Annales de la Faculté des Sciences de l'Université de Grenoble, Vols. 13–16 (1901–1904).

HALIFAX.

Proceedings and Transactions of the Nova Scotia Institute of Sciences, Ser. 2, Vols. 1–2.

HAMBURG. See LEIPZIG.

ITHACA.

Bulletin of the American Physical Society, Vols. 1–2, Vol. 3, No. 1 (last) (1899–1902).

Journal of Physical Chemistry, Vols. 1–9 (1896–1905).

KASAN.

Bulletin de la Société physico-mathématique de Kasan, Vols. 1–5, 7–13 (1891–1903).

KHARKOF.

Communications of the Mathematical Society of Kharkof, Ser. 2, Vols. 5–7 (1897–1902).

KIEFF.

University Isvistija, Vols. 43–44 (1903–1904).

LAWRENCE.

Kansas University Quarterly, Ser. A, Vols. 9–10 (1900–1901).

Kansas University Science Bulletin, Vols. 1–2 (1902–1905).

LEGHORN.

Periodico di Matematica, Ser. 1, Vols. 2–11; Ser. 2, Vols. 12–18; Ser. 3, Vols. 19–20 (1888–1905).

Supplemento al Periodico di Matematica, Vols. 2–8 (1898–1904).

LEIPZIG.

Archiv der Mathematik und Physik, Ser. 3, Vols. 1–9 (1901–1905).

Bibliotheca Mathematica, 1887–1903.

Jahresbericht der Deutschen Mathematiker-Vereinigung, Vols. 1–9; New Ser., Vols. 11–14 (2 sets, except Vols. 1–4) (1890–1905).

Mathematische Annalen, Vols. 41–43, 45–60 (1893–1905).

Mathematische und naturwissenschaftliche Berichte aus Ungarn, Vols. 1–20 (1882–1902).

Mittheilungen der mathematischen Gesellschaft in Hamburg, Vols. 2–3 (1890–1900).

Zeitschrift für Mathematik und Physik, Vols. 44–52 (1899–1905).

Sächsische Gesellschaft der Wissenschaften, math.-phys. Classe; Abhandlungen, Vols. 25–28 (1899–1902); *Berichte*, Vols. 45–56 (1893–1904).

Zeitschrift für mathematischen und naturwissenschaftlichen Unterricht, Vols. 23–29 (1892–1898).

LEMBERG.

Sammelschrift der mathematisch-naturwissenschaftlichen Section der Sevcenko-Gesellschaft der Wissenschaften, Vols. 9–10 (1903–1904).

LICK OBSERVATORY, MT. HAMILTON.

Lick Observatory Contributions, Vols 3–5 (1893–1895); *Publications*, Vols. 1–6 (1887–1903).

LIÉGE.

Mémoires de la Société Royale des Sciences de Liége, Ser. 2, Vols. 19–20; Ser. 3, Vols. 1–5 (1897–1904).

LIMA.

Revista de Ciencias, Vols. 1–7 (1898–1904).

LIVORNO. See LEGHORN.

LONDON.

Educational Times, 1897–1904.

Journal of the Institute of Actuaries, Vols. 35–38 (1901–1904).

Royal Society, Philosophical Transactions, Ser. A, Vols. 192–204 (1899–1905); *Proceedings*, Vols. 62–76 (1898–1905); *Year Book*, Vols. 1–2 (1896–1898).

Proceedings of the London Mathematical Society, Vols. 1–35 (1865–1903); Ser. 2, Vols. 1–3 (1903–1905); Index, Vols. 1–30. *List of Members*, 1865–1899.

Mathematical Gazette, Vols. 1–2 (1896–1904).

Messenger of Mathematics, Vols. 6–7, 24–34 (1894–1905).

Quarterly Journal of Pure and Applied Mathematics, Vols. 31–36 (1899–1905).

LUXEMBURG.

Institut Grand-Ducal, Publications (Section des Sciences naturelles et mathématiques), Vols. 8–9, 15, 17–21, 23–27 (1865–1904).

MADRID.

Archivo de matematicas, 1896–1897 (last).

Memorias de la Real Academia de Ciencias, Vols. 14, 20 (1890, 1903).

Rivista de la Real Academia de Ciencias, Vols. 1–2 (1904–1905).

MANCHESTER.

Memoirs and Proceedings of the Manchester Literary Society, Vols. 37–49 (1892–1904).

MARSEILLES.

Annales de la Faculté des Sciences de Marseilles, Vols. 11–13 (1901–1903).

MEXICO.

Memorias y Rivista de la Sociedad Cientifica Antonio Alzate, Vols. 2–20 (1888–1903).

MILAN.

Annali di Matematica pure ed applicata, Ser. 3, Vols. 2–11 (1899–1905); *General Index*, 1850–1897.

Reale Istituto Lombardo di Scienze e Lettere, Rendiconti, Ser. 2, Vols. 33–37 (1900–1904); *Memorie*, Vol. 19 (1900).

MONTPELLIER.

Mémoires de l'Académie des Sciences de Montpellier, Ser. 2, Vols. 1–2 (1893–1900).

MOSCOW.

Transactions of the Mathematical Society of Moscow, Vols. 1–24 (1866–1903); Index, Vols. 1–15.

Physico-Mathematical Gazette, Vols. 1, 4–11, 13–22 (1880–1904).

MUNICH.

Hochschul-Nachrichten, Vol. 13 (1902–1903).

NAPLES.

Accademia delle Scienze fisiche e matematiche di Napoli, Atti, Ser. 2, Vols. 8–11 (1899–1902); *Rendiconti*, Vols. 34–43 (1895–1903).

NEW YORK.

Annual Register of the American Mathematical Society, 1891–1905.

Bulletin of the American Mathematical Society, Vols. 1–11 (1894–1905); General Index, 1891–1904; *Transactions*, Vols. 1–6 (1900–1905) (2 sets).

Bulletin of the Association of Teachers of Mathematics in the Middle States and Maryland, Vols. 1–2 (1904–1905).

Bulletin of the New York Mathematical Society, Vols, 1–3 (1891–1894) (2 sets).

Papers and Transactions of the Actuarial Society of America, Vols. 1–8 (1889–1904).

Physical Review, Vols. 16–21 (1903–1905).

Science, New Ser., Vols. 1–22 (1895–1905).

NORTHFIELD.

Astronomy and Astrophysics, 1892–94.

Popular Astronomy, Vols. 10–13 (1902–1905).

ODESSA.

Viestnik Opytnoy Fisiki, Vols. 24–25.

Society of Naturalists of New Russia, Mathematical Section, Zapiski, Vol. 20 (1902).

PALERMO.

Atti dell' Accademia di Scienze di Palermo, Ser. 3, Vols. 1–6 (1891–1901).

Il Pitagora, Vols. 2–10 (1896–1904).

Rendiconti del Circolo matematico di Palermo, Vols. 1–19 (1884–1905); *Annuario*, 1898, 1900, 1904.

PARIS.

Bulletin des Sciences mathématiques et physiques élémentaires, Vols. 1–10 (1895–1904).

Bulletin de la Société mathématique de France, Vols. 21–33 (1893–1905).

Bulletin de la Société philomatique de Paris, New Ser., Vols. 4–6 (1901–1904).

Bulletin des Sciences mathématiques, Vols. 27–28 (1903).

Bureau des Longitudes, Annuaire, 1903–1906.

Comptes rendus de l'Académie des Sciences de Paris, Vols. 136–139 (1895–1904).

Journal de Mathématiques pures et appliquées, Ser. 5, Vols. 1–10 (1895–1905).

L'Education mathématique, Vols. 5–6 (1902–1903).

L'Enseignement mathématique, Vols. 4–6 (1902–1904).

L'Intermédiare des mathématiciens, Vols. 1–11 (1894–1904).

Nouvelles Annales de Mathématiques, Ser. 1, Vols. 1–20 (1842–1861); Ser. 2, Vols. 1–11 (1862–1872), 13–19 (1874–1879); Ser. 4, Vols. 3–4 (1903–1904).

Revue de l'Institut catholique, Vols. 7–9 (1902–1904).

Revue générale des Sciences, Vols. 13–16 (1902–1905).

Revue de Mathématiques spéciales, Vols. 13–14 (1902–1904).

PAVIA.

Rivista di Fisica, Matematica e Scienze Naturali, Vols. 7–12 (1903–1905).

PHILADELPHIA.

American Philosophical Society, Proceedings, Vols. 29–43 (1891–1904); *Transactions*, Vol. 20 (1902); *List of Surviving Members*, 1892.

PISA.

Annali della Scuola normale superiore, Vols. 1–9 (1871–1904).

PRAGUE.

Casopis pro pèstováni mathematiky a fysiky (*Journal of Mathematics and physics*), Vols. 21, 23–25, 27–33 (1892–1903); Index to Vols. 1–30.

Jednota českych Mathematiků Sbornik, Vols. 1–9. (See BOOKS OTHER THAN JOURNALS, under PRAGUE.

Rozpravy Ceské Akademie Césaře Františka Josefa. (The memoirs relating to mathematics only.) Vols. 1–12 (1891–1903).

Věstník Královské Ceské Spolècnosti Náuk (*Proceedings of the Bohemian Academy of Sciences*), 1899–1902; *Bulletin Internationale*, Vols. 7–9.

RALEIGH.

Journal of the Elisha Mitchell Scientific Society, Vols. 9–12 (1892–1895).

RENNES.

Travaux Scientifiques de l'Université, Vols. 1–3 (1902–1905).

ROME.

Accademia dei Lincei, Atti, Vol. 4; *Rendiconti*, Ser. 5, Vols. 1–7, 9–14 (1892–1905).

Pontificia Accademia dei Nuovi Lincei, Atti, Vols. 48–57 (1894–1903); *Memorie*, Vols. 15–18 (1898–1901).

Societa Italiana delle Scienze, Memorie di Matematica e di Fisica, Vols. 12–13 (1902).
Rivista di Artiglieria e Genio, Vols. 1–4, New Ser., Vols. 1–3.

SAN FRANCISCO.
Publications of the Astronomical Society of the Pacific, Vols. 1–16 (1889–1904).

SPRINGFIELD, MO.
The American Mathematical Monthly, Vols. 1–12 (1894–1905).

ST. LOUIS.
Transactions of the St. Louis Academy of Sciences, Vols. 5–14 (1886–1904).

ST. PETERSBURG.
Bulletin de l'Académie des Sciences, Vols. 1, 5–32 (1860–1888); Ser. 5, Vols. 1–16 (1890–1903).

STOCKHOLM.
Acta Mathematica, Vols. 1–29 (1882–1904).

STUTTGART.
Mathematisch-naturwissenschaftliche Mitteilungen, Ser. 1, Vols. 1–5 (1884–1892); Ser. 2, Vols. 1–6 (1899–1904).
Zeitschrift für Vermessungswesen, Vols. 31–34 (1902–1905).

TOKYO.
Sugaku-Butsurigaku Kwai Kiji (Journal of the Physico-Mathematical Society of Tokyo), Vols. 1–5, 7–8; Ser. 2, Vol. 1.

TOULOUSE.
Annales de la Faculté des Sciences de l'Université de Toulouse. Ser. 1, Vols. 6–12; Ser. 2, Vols. 1–6 (1891–1904).
Bulletin de l'Académie des Sciences de Toulouse, Vol. 3 (1899–1900).
Mémoires de l'Académie des Sciences de Toulouse, Ser. 10, Vols. 1–4 (1901–1904).

TURIN.
Reale Accademia di Scienze di Torino, Atti, Vols. 30–40 (1895–1905; Index, Vols. 21–30; *Memorie,* Ser. 2, Vols. 48–55 (1899–1905).
Bulletino di Bibliografia e Storia delle Scienze matematiche, Vols. 5–7 (1902–1904).
Formulaire de Mathématiques, Vols. 1–4 (1895–1902).
Revue de Mathématiques, Vols. 1–7 (1891–1901).

ULM.
Jahresheft des Vereins für Mathematik und Naturwissenshaften, 1903.

UPSALA.
Universitets Arsskrift, 1901–1904.

VIENNA.
Monatshefte für Mathematik und Physik, Vols. 1–16 (1890–1905).
Sitzungsberichte der kaiserlichen Akademie der Wissenschaften in Wien, math.-naturwiss. Classe, Vols. 108–113 (1899–1904).

WARSAW.
Travaux de la Société de Naturalists, Imp. Université de Warsaw, Vols. 1–3 (1891–1895).
Prace matematyczno-fizyczne, Vols. 1–16 (1888–1905).
Tablice Matematyczno-fizyczne, 1904.
Wiadomosci matematyczne, 1897–1904.

WASHINGTON.
Publications of the U. S. Naval Observatory, Ser. 2, Vols. 1–5 (1900–1905).
Smithsonian Institution, Reports, 1885–87, 1889–90, 1895–1904.

ZARAGOSSA.
Revista trimestral de Matematicas, Vols. 1–4 (1901–1904).

ZURICH.
Vierteljahrschrift der naturforschenden Gesellschaft, Vols. 34–49 (1889–1904).

II. BOOKS OTHER THAN JOURNALS. ACCESSIONS IN 1905.

AHRENS, W. Mathematische Unterhaltungen und Spiele, Leipzig, 1901.

BAILLARD, B. et BOURGET, H. Correspondence d'Hermite et de Stieltjes, Vols. 1 and 2, Paris, 1905.

BELFAST. Queen's College Calendar, 1905–6.

BOLYAI, W. und GAUSS, C. F. Briefwechsel, Leipzig, 1899.

BOLZA, O. Lectures on the calculus of variations, Chicago, 1904.

BOOLE, M. E. Preparation of the child for science, Oxford, 1904.

BOREL, E. Leçons sur les séries divergentes, Paris, 1901.
Leçons sur les séries à termes positifs, Paris, 1902.

BOURGET, H. See BAILLARD, B.

BRISTOL. University College Calendar, 1905–6.

CARDIFF. Calendar of the University College of South Wales, 1904–5.

CLAY, C. M. Examples in algebra, New York, 1905.

CLEMENT-JONES, A. Notes on analytical geometry, Oxford, 1903.

COPENHAGEN. *D. Kgl. Danske Vidensk. Selsk. Skrifter.* (Mathematical parts only, including memoirs by the following authors: BERNOULLI, J., BRAHES, T., BROAGER, P. D., BRONSTED, J. N., BUCHWALDT, F., CAGNOLI, COLDING, D'ARREST, H. L., DEGEN, C. F., GRAM, J. P., HANSEN, P. A., HANSEN, P. C. V., HERTZSPRUNG, S., JUEL, C., JURGENSEN, C., LANDE, LORENZ, L., OLUFSEN, C. F. R., ÖRSTED, H. C., RAMUS, C., SCHJELLERUP, H. C. F. C., SCHMIDTEN, H. G., STEEN, A., THIELE, T. N., VALENTINER, H., WESSEL, C., ZEUTHEN, H. G., 1784–1899.)

COUTURAT, L. L'algèbre de la logique, Paris, 1905.

CUNNINGHAM, A. J. C. Binary canon, London, 1900.

CZUBER, E. Wahrscheinlichkeitsrechnung, Parts 1 and 2, 1902.

DUBLIN. Examination papers of the Royal University, 1904.
Calendar of the Royal University, 1905.

DUHEM, P. Recherches sur l'hydrodynamique, Paris, 1904.

ENCYCLOPÄDIE der mathematischen Wissenschaften, Vol. 1, Leipzig, 1904.

ESTANAVE, E. Essai sur la sommation de quelques séries trigonométriques, Paris, 1903.

FOERING and LAMBERT. Plane and spherical trigonometry, 1905.

GAUSS, C. F. Werke, Vol. 9, 1903.
See BOLYAI, W.

GOURSAT, E. Cours d'analyse mathématique, Vol. 2, Paris, 1905.

GOURSAT-HEDERICK. Mathematical analysis, Vol. 1, Boston, 1905.

GRANVILLE, W. A. Elements of the differential and integral calculus. Boston, 1904.

HALSTED, G. B. Rational geometry. New York, 1904.

HAMMER, E. Sechstellige Tafel der Werte von $\log \frac{1+x}{1-x}$, Leipzig, 1902.

HEDRICK, E. R. See GOURSAT.

HENSEL, K. and LANDSBERG, G. Theorie der algebraischen Funktionen einer Variablen und ihre Anwendungen auf algebraischen Kurven und Abelsche Integrale. Leipzig, 1902.

HERMITE, CH., POINCARÉ, H., ROUCHÉ, E. Oeuvres de Laguerre. Vol. 2. Paris, 1905.
See PICARD.

HILL, G. W. Collected mathematical works, 1905.

HOLZMÜLLER, G. Ingenieur-Mathematik. Das Potential. Leipzig, 1898.

HUBBELL, H. The geometry of Euclid, 1861.

HUDSON, R. W. H. T. Kummer's quartic surface.

KIEPERT, L., STEGEMAN, M. Grundriss der Differential- und Integral-Rechnung, Paris, Hanover, 1900–1901.

KÜBLER, B. J. Woher kommen die Weltgesetze?

LAMBERT. See FOERING.

LANDSBERG, G. See HENSEL.

LARMOR, J. Aether and matter, Cambridge, 1900.

LAURENT, H. Sur le principes fondamentaux de la théorie des nombres.

LECHALAS, G. Introduction à la géométrie générale, Paris, 1904.

LEVAVASSEUR, R. Groupes d'ordres finis et groupes finis continus. Lyons, 1904.

LINDELÖF, E. Calcul des residus, Paris, 1904.

MCMURRY, C. A. Special method in arithmetic, New York, 1905.

OSGOOD, W. F. Collected papers, Vols. I, II.

PASCAL, E. Lezioni di calculo infinitesimale, Part I, integrale; Part II, differenziale, Milan, 1902–1903.

PICARD, E. Oeuvres de Charles Hermite, Vol. 1, Paris, 1905.
Sur le develloppement de l'analyse, Paris, 1905.
Traité d'analyse, Paris, 1896.

POINCARÉ, H. Electricité et optique, la lumière et les théories électro-dynamiques, 1901.
See HERMITE, CH.

PRAGUE. *Jednota českých mathematiků Sborník.*
Vol. 1. WEYR, E. Projectivná geometrie, 1898.
Vol. 2. KOLÁČEK, F. Hydrodynamika, 1899.
Vol. 3. STUDNIČKA, F. J. Úvod do nauky o determinantech, 1900.
Vol. 4. STROUHAL, C. Mechanika, 1901.
Vol. 5. WEYR, E. Počet differenciálný, 1902.
Vol. 6. STROUHAL, C. Akustika, 1903.
Vol. 7. STUDNICKA, F. J. Analytické geometrie, V rovině, 1903.
Vol. 8. KOLOUŠEK, J. Mathematická theorie důchodů jistých a pujček annuitních, 1904.
Vol. 9. KOLÁČEK, F. Electřina a magnetismus, 1905.

RIEMANN, B.-STAHL, H. Elliptische Functionen, Leipzig, 1899.

ROUCHÉ, E. See HERMITE, CH.

SCHÖNFELD, G. A. Die Kromme van den vierden Graad in de vierdimensionale Ruimte, Groningen, 1904.

SMITH, D. E. Portfolio of portraits of eminent mathematicians, Chicago, 1905.

SOLVERT, M. Mémoires sur une classe de fonctions elliptiques, Brussels, 1903.

STAHL, H. See RIEMANN, B.

STEGEMANN, M. See KIEPERT, L.

STRINGHAM, I. Uniplanar algebra, San Francisco, 1893.

SYDNEY.. Calendar of the University, 1905.

VAN VLECK, E. B., WHITE, H. S., WOODS, F. S. The Boston Colloquium Lectures on Mathematics, New York, 1905.

WANGERIN, A. Verhandlungen der Breslauer Naturforscher-Versammlung, Leipzig, 1905.

WHITE, H. S. See VAN VLECK, E. B.

WILSON, J. C. On the Traversing of Geometrical Figures, Oxford, 1905.

WOODS, F. S. See VAN VLECK, E. B.

AMERICAN MATHEMATICAL SOCIETY

Organized as the New York Mathematical Society, November, 1888
Reorganized as the American Mathematical Society, July, 1894

ANNUAL REGISTER

JANUARY, 1907

NEW YORK:
PUBLISHED BY THE SOCIETY
501 WEST 116TH STREET
1907

PRESS OF
THE NEW ERA PRINTING COMPANY
LANCASTER, PA.

DIRECTORY

Offices of the Secretary, Librarian, and Committee of Publication,
501 West 116th Street, New York, N. Y.

Office of the Treasurer,
8 East 49th Street, New York, N. Y.

Secretary of the Chicago Section,
H. E. SLAUGHT, *University of Chicago, Chicago, Ill.*

Secretary of the San Francisco Section,
W. A. MANNING, *Stanford University, Cal.*

Assistant Secretary of the Society,
W. H. BUSSEY, *501 West 116th Street, New York, N. Y.*

Changes of address should be immediately communicated to the Secretary for entry in the mailing lists of the Society.

Membership dues should be remitted to Dr. W. S. DENNETT, Treasurer, 8 East 49th Street, New York, N. Y., by draft or money order, drawn payable to the AMERICAN MATHEMATICAL SOCIETY.

The following dates have been fixed for the meetings of the Society during the year 1907:

Saturday, February 23,	Saturday, October 26,
Saturday, April 27,	Fri.-Sat., December 27–28.

The meeting of December 27–28 will be the Annual Meeting of the Society for the election of officers.

Meetings of the Chicago Section will be held in April and during the Christmas holidays. The San Francisco Section will meet on February 23 and September 28.

Papers intended for presentation at any meeting or sectional meeting of the Society should be sent to the Secretary or Secretary of the Section in advance of the meeting for submission to the Programme Committee, and should be accompanied by an abstract, suitable for publication in the BULLETIN, and a statement of the time required for presentation. Blanks for the entry of abstracts will be furnished by the Secretaries, on application.

PUBLICATIONS

Transactions

of the

American Mathematical Society

EDITED BY

ELIAKIM HASTINGS MOORE,
EDWARD BURR VAN VLECK, HENRY SEELY WHITE,

with the coöperation of

CHARLES LEONARD BOUTON, LEONARD EUGENE DICKSON,
JOHN IRWIN HUTCHINSON, EDWARD KASNER,
EDWIN BIDWELL WILSON.

Published quarterly by the Society with the support of

YALE UNIVERSITY, NORTHWESTERN UNIVERSITY,
COLUMBIA UNIVERSITY, CORNELL UNIVERSITY,
WESLEYAN UNIVERSITY, THE UNIVERSITY OF CALIFORNIA,
HAVERFORD COLLEGE, THE UNIVERSITY OF CHICAGO,
THE UNIVERSITY OF MISSOURI, STANFORD UNIVERSITY.

The TRANSACTIONS is devoted primarily to research in pure and applied mathematics, and is the official organ of the Society for the publication of important original papers read before it. The first number appeared in January, 1900.

Publication Agents, The Macmillan Company, 66 Fifth Avenue, New York, N. Y. Subscription price $5.00 per annum; to members of the Society $3.75 per annum, back volumes at the same price. Members' subscriptions should be sent to the Treasurer of the Society.

PUBLICATIONS

Bulletin of the American Mathematical Society

CONTINUATION OF THE BULLETIN OF THE NEW YORK MATHEMATICAL SOCIETY.

A HISTORICAL AND CRITICAL REVIEW OF MATHEMATICAL SCIENCE.

EDITED BY

F. N. COLE, ALEXANDER ZIWET, DAVID EUGENE SMITH,
FRANK MORLEY, VIRGIL SNYDER.

The BULLETIN contains a large number of critical reviews of mathematical treatises and text-books, a complete monthly list of new mathematical publications, notes on current events in the mathematical world, addresses before mathematical bodies, reports on progress in various branches of the science, reports of the meetings of the Society and of other mathematical societies and congresses, and many short original articles.

Published for the Society by the Macmillan Company, 66 Fifth Avenue, New York, N. Y. Issued monthly, except August and September. Sent free to members of the Society. Subscription price to non-members $5.00. Members of the Society are entitled to receive back volumes of the present Series to complete their sets at $4.00 per volume, so far as the supply permits. A member connected with an educational institution may order the current volume for its library at $2.50

Books for review and manuscripts intended for publication in the BULLETIN should be sent to one of the members of the Committee of Publication. Subscriptions to the BULLETIN and orders for back numbers should be addressed to The Macmillan Company.

PUBLICATIONS

Published Papers. Vol. I

MATHEMATICAL PAPERS READ AT THE INTERNATIONAL MATHEMATICAL CONGRESS HELD IN CONNECTION WITH THE WORLD'S COLUMBIAN EXPOSITION, CHICAGO, 1893.

EDITED BY THE COMMITTEE OF THE CONGRESS:

E. HASTINGS MOORE, OSKAR BOLZA, HEINRICH MASCHKE, HENRY S. WHITE.

Containing papers by Bolza, Burkhart, Capelli, Cole, Dyck, Echols, Eddy, Fricke, Halsted, Heffter, Hermite, Hilbert, Hurwitz, Klein, Krause, Lemoine, Lerch, Macfarlane, Martin, Maschke, Meyer, Minkowski, Moore, Netto, Noether, D'Ocagne, Paladini, de Perott, Pervouchine, Pincherle, Pringsheim, Sawin, Schlegel, Schoenflies, Stringham, Study, Taber, Weber, Weyr.

Published for the Society by The Macmillan Company, 1896. 8vo, pp. 411. Price, $3.00; to members of the Society, $1.50.

PUBLICATIONS

The Boston Colloquium Lectures on Mathematics

Delivered from September 2 to 5, 1903, Before Members of the American Mathematical Society in Connection with the Summer Meeting Held at the Massachusetts Institute of Technology, Boston, Mass.

I. Linear Systems of Curves on Algebraic Surfaces.
By Henry S. White.

II. Forms of Non-Euclidean Space.
By Frederick S. Woods.

III. Selected Topics in the Theory of Divergent Series and of Continued Fractions.
By Edward B. Van Vleck.

Published for the Society by The Macmillan Company, 1905. 8vo, pp. 175 + v. Price, $2.00; to members of the Society, $1.50.

OFFICERS PAST AND PRESENT

PRESIDENT.

J. H. Van Amringe,	1888–1890,	R. S. Woodward,	1898–1900,
Emory McClintock,	1890–1894,	Eliakim H. Moore,	1900–1902,
G. W. Hill,	1894–1896,	Thomas S. Fiske,	1902–1904,
Simon Newcomb,	1896–1898,	W. F. Osgood,	1904–1906,

H. S. White, 1906–.

VICE-PRESIDENTS.

Emory McClintock,	1889–1890,	Frank Morley,	1901–1902,
J. K. Rees,	1890–1891,	W. F. Osgood,	1902–1903,
Henry B. Fine,	1891–1893,	Alexander Ziwet,	1902–1903,
G. W. Hill,	1893–1894,	Oskar Bolza,	1903–1904,
H. A. Newton,	1894–1896,	J. M. Van Vleck,	1903–1904,
R. S. Woodward,	1896–1898,	E. W. Brown,	1904–1905,
Eliakim H. Moore,	1897–1900,	James Pierpont,	1904–1905,
Thomas S. Fiske,	1898–1901,	Charlotte A. Scott,	1905–1906,
Henry S. White,	1900–1901,	Irving Stringham,	1905–1906,
Maxime Bôcher,	1901–1902,	Heinrich Maschke,	1906– ,

P. F. Smith, 1906–.

SECRETARY.

Thomas S. Fiske,	1888–1895,	F. N. Cole,	1895– .

TREASURER.

Thomas S. Fiske,	1888–1891,	R. S. Woodward,	1894–1896,
Harold Jacoby,	1891–1894,	Harold Jacoby,	1896–1899,

W. S. Dennett, 1899– .

LIBRARIAN.

D. A. Murray,	1892–1893,	Edward L. Stabler,	1894–1895,
Gustave Legras,	1893–1894,	Pomeroy Ladue,	1895–1901,

D. E. Smith, 1901– .

COMMITTEE OF PUBLICATION.

Thomas S. Fiske,	1891–1899,	Frank Morley,	1894–1898,
Harold Jacoby,	1891–1893,	F. N. Cole,	1898– ,
Alexander Ziwet,	1893– ,	Frank Morley,	1899–1902,

D. E. Smith, 1902– .

MEMBERS OF THE COUNCIL

1907

OFFICERS.

H. S. WHITE, *President.*
HEINRICH MASCHKE, } *Vice-Presidents.*
P. F. SMITH, }
F. N. COLE, *Secretary.*
W. S. DENNETT, *Treasurer.*
D. E. SMITH, *Librarian.*
F. N. COLE, }
ALEXANDER ZIWET, } *Committee of Publication.*
D. E. SMITH, }

EX-PRESIDENTS.

J. H. VAN AMRINGE, SIMON NEWCOMB, T. S. FISKE,
EMORY MCCLINTOCK, R. S. WOODWARD, W. F. OSGOOD.
G. W. HILL, E. H. MOORE,

ELECTED MEMBERS.

To Serve until December, 1907.

E. R. HEDRICK, E. O. LOVETT,
T. F. HOLGATE, L. A. WAIT.

To Serve until December, 1908.

C. L. BOUTON, EDWARD KASNER,
L. E. DICKSON, E. J. TOWNSEND.

To Serve until December, 1909.

G. A BLISS, M. W. HASKELL,
E. W. BROWN, A. G. WEBSTER.

EDITORIAL COMMITTEE OF THE TRANSACTIONS.

E. H. MOORE, E. B. VAN VLECK, H. S. WHITE.

MEMBERS OF THE SOCIETY.

JANUARY 1, 1907.

Life members are designated by *.

Date of Admission.		
1892,	Nov.	ABBE, CLEVELAND, B.A., B.Sc., M.A., Ph.D., LL.D.; Member of the National Academy of Sciences; Member of the Astronomische Gesellschaft; F.R.A.S.; Member of the Deutsche Mathematiker-Vereinigung; Editor of the *Monthly Weather Review;* Associate Editor of *Beiträge zur Physik der Atmosphäre;* Professor of Meteorology, U. S. Weather Bureau; Professor of Meteorology, George Washington University, Washington, D. C.; Lecturer in Meteorology, Johns Hopkins University, Baltimore, Md. *U. S. Weather Bureau,* Washington, D. C.
1905,	Oct.	AKERS, OSCAR PERRY, M.A., Ph.D. (Cornell); Assistant Professor of Mathematics, Allegheny College, Meadville, Pa.
1891,	Nov.	ALEY, ROBERT JUDSON, M.A., Ph.D. (Pennsylvania); Member of the London Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Member of the Edinburgh Mathematical Society; Editor of the *Educator-Journal;* Professor of Mathematics, University of Indiana, Bloomington, Ind. *209 Forest Place.*
1901,	Dec.	ALLARDICE, ROBERT EDGAR, M.A.; Fellow of the Royal Society of Edinburgh; Member of the Edinburgh Mathematical Society; Professor of Mathematics, Stanford University, Cal.
1897,	Dec.	ALLEN, JOSEPH, M.A.; Assistant Professor of Mathematics, College of the City of New York. *9 Myrtle Street,* White Plains, N. Y.
1905,	Oct.	ALLEN, REGINALD BRYANT, B.Sc., M.Sc., Ph.D. (Clark); Professor of Mathematics, Kenyon College, Gambier, Ohio.
1903,	Oct.	AMES, LEWIS DARWIN, M.A., Ph.D. (Harvard); Assistant Professor of Mathematics, University of Missouri, Columbia, Mo. *808 Hitt Street.*

Date of Admission.		
1901,	Dec.	ANDREWS, GRACE, B.Sc., Ph.D. (Columbia). *"The Brevoort," 47 Brevoort Place*, Brooklyn, N. Y.
1903,	Oct.	ARCHIBALD, RAYMOND CLARE, M.A., Ph.D. (Strassburg); Professor of Mathematics, Mount Allison Ladies' College, Sackville, New Brunswick, Canada. *P. O. Box 122.*
1901,	Oct.	ASHTON, CHARLES HAMILTON, M.A.; Assistant Professor of Mathematics, University of Kansas, Lawrence, Kansas. *1202 Ohio Street.*
1906,	Feb.	BABB, MAURICE JEFFERIS, B.Sc.; Instructor in Mathematics, University of Pennsylvania, Philadelphia, Pa.
1903,	Feb.	BAILEY, FREDERICK HAROLD, M.A.; Associate Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass.
1891,	June	BAKER, ALFRED, M.A.; Fellow of the Royal Society of Canada; Member of the Société Mathématique de France; Professor of Mathematics, University of Toronto, Toronto, Canada.
1891,	Feb.	BAKER, ARTHUR LATHAM, C.E., Ph.D.; Professor of Mathematics, Manual Training High School, Brooklyn, N. Y.
1904,	Oct.	BAKER, RICHARD PHILIP, B.Sc.; Instructor in Mathematics, State University of Iowa, Iowa City, Ia. *1004 East College Street.*
1894,	Oct.	BARNUM, CHARLOTTE CYNTHIA, B.A., Ph.D. (Yale); U. S. Coast and Geodetic Survey, Washington, D. C.
1903,	Aug.	BARTLETT, DANA PRESCOTT, B.Sc.; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics and Acting Secretary, Massachusetts Institute of Technology, Boston, Mass.
1892,	Apr.	BARTON, SAMUEL MARX, B.A., Ph.D.; Member of the Circolo Matematico di Palermo; Professor of Mathematics, University of the South, Sewanee, Tenn.
1891,	Apr.	BASS, EDGAR WALES, Graduate of the U. S. Military Academy; Colonel U. S. Army, retired. *77 Park Avenue*, New York, N. Y.
1903,	Oct.	BATES, WILLIAM HUNT, M.A.; Member of the Deutsche Mathematiker-Vereinigung; Instructor in Mathematics, Purdue University, Lafayette, Ind. *Columbia Flats.*
1900,	Dec.	BAUER, GEORGE NEANDER, M.Sc., Ph.D. (Columbia); Assistant Professor of Mathematics, University of Minnesota, Minneapolis, Minn.

Date of Admission.		
1905,	Feb.	BECKETT, CHARLES HARRISON, B.A.; Assistant Professor of Mathematics, Purdue University, Lafayette, Ind.
1906,	Sept.	BEEBE, WILLIAM, M.A.; Professor of Mathematics, Yale University, New Haven, Conn. *262 Bradley Street.*
1891,	Apr.	BEMAN, WOOSTER WOODRUFF, M.A.; Member of the London Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Professor of Mathematics, University of Michigan, Ann Arbor, Mich. *813 East Kingsley Street.*
1901,	Oct.	BENEDICT, HARRY YANDELL, M.A., Ph.D. (Harvard); Associate Professor of Mathematics and Astronomy, University of Texas, Austin, Texas.
1897,	Feb.	*BERRY, ARTHUR, M.A.; Fellow of the Cambridge Philosophical Society; Member of the London Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; F.R.A.S.; Fellow and Assistant Tutor in Mathematics, King's College, Cambridge, England.
1906,	Feb.	BETZ, WILLIAM, B.A.; Head of the Department of Mathematics, East High School, Rochester, N. Y. *160 Grand Avenue.*
1902,	Apr.	BIKLÉ, CHARLES EARL, M.A.; Adjunct Professor of Mathematics, Teachers College, Columbia University, New York, N. Y.
1906,	Feb.	BIRKHOFF, GEORGE DAVID, B.A. *4557 Lake Avenue,* Chicago, Ill.
1891,	Dec.	BLAKE, EDWIN MORTIMER, M.E., Ph.D. (Columbia); Member of the Société Mathématique de France; Professor of Mathematics and Mechanics, University of Arizona, Tucson, Ariz.
1900,	Dec.	BLICHFELDT, HANS FREDERIK, M.A., Ph.D. (Leipzig); Assistant Professor of Mathematics, Stanford University, Cal.
1900,	Dec.	*BLISS, GILBERT AMES, B.Sc., M.Sc., Ph.D. (Chicago); Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Editor of the *Annals of Mathematics;* Assistant Professor of Mathematics, Princeton University, Princeton, N. J. *The Nassau Club.*

Date of Admission.		
1892,	Apr.	*Bôcher, Maxime, B.A., Ph.D. (Göttingen); Member of the Deutsche Mathematiker-Vereinigung; Editor of the *Annals of Mathematics;* Professor of Mathematics, Harvard University, Cambridge, Mass. *48 Buckingham Street.*
1899,	Oct.	Bogarte, Martin Eugene, M.A.; Professor of Mathematics, Northern Indiana Normal School, Valparaiso, Ind. *College Avenue and Locust Street.*
1891,	Nov.	Bolza, Oskar, Ph.D. (Göttingen); Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, University of Chicago, Chicago, Ill.
1905,	Dec.	Börger, Robert Lacey, M.A.; Instructor in Mathematics, University of Missouri, Columbia, Mo.
1898,	Dec.	*Bouton, Charles Leonard, M.Sc., M.A., Ph.D. (Leipzig); Member of the Deutsche Mathematiker-Vereinigung; Associate Editor of the *Transactions of the American Mathematical Society;* Assistant Professor of Mathematics, Harvard University, Cambridge, Mass. *507 Craigie Hall.*
1900,	Dec.	Bowden, Joseph, B.A., Ph.D. (Yale); Professor of Mathematics, Adelphi College, Brooklyn, N. Y. *24 Clifton Place.*
1891,	June	Bowser, Edward Albert, C.E., LL.D.; Emeritus Professor of Mathematics, Rutgers College, New Brunswick, N. J.
1903,	Feb.	Brackett, Frank Parkhurst, M.A.; Professor of Mathematics, Pomona College, Claremont, Cal.
1901,	Dec.	Brasefield, Stanley Eugene, C.E., M.Sc.; Instructor in Mathematics and Graphics, Lafayette College, Easton, Pa. *327 Center Street.*
1903,	Feb.	Breckinridge, William Edwin, M.A.; Teacher of Mathematics, Stuyvesant High School, New York, N. Y. *225 East 23rd Street.*
1906,	Feb.	Brenke, William Charles, M.Sc.; Instructor in Mathematics, Harvard University, Cambridge, Mass. *35 Eustis Street,* North Cambridge, Mass.
1902,	Sept.	Bromwich, Thomas John I'anson, M.A., F.R.S.; Fellow of the Cambridge Philosophical Society; Member of the London Mathematical Society; Member of the Edinburgh Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, Queen's College, Galway; Fellow of the Royal University of Ireland; *Queen's College,* Galway, Ireland.

Date of Admission.		
1901,	Dec.	BROOKE, WILLIAM ELLSWORTH, B.C.E., M.A.; Assistant Professor of Engineering Mathematics, University of Minnesota, Minneapolis, Minn.
1891,	June	BROOKS, JOHN MILTON, M.A.; Birmingham Building and Improvement Company, Birmingham, Ala. *2109 First Avenue.*
1892,	Feb.	*BROWN, ERNEST WILLIAM, M.A., Sc.D. (Cambridge); F.R.S.; Fellow of the Cambridge Philosophical Society; Member of the London Mathematical Society; F.R.A.S.; Member of the American Philosophical Society; Professor of Mathematics, Haverford College, Haverford, Pa.
1900,	Oct.	BROWN, GEORGE LINCOLN, M.Sc., Ph.D. (Chicago); Professor of Mathematics and Astronomy, South Dakota Agricultural College, Brookings, S. D.
1902,	Sept.	*BROWN, J. STANFORD, B.Ph., M.A.; President of the Realty-Loan Trust Company; Vice-President and Treasurer of the New York Realty Owners Company. *10 Belmont Avenue, Station A,* Yonkers, N. Y.
1904,	Apr.	BROWNE, JOHN J., B.A.; Assistant Professor of Mathematics, Colorado School of Mines, Golden, Colo.
1899,	Aug.	*BULLARD, WARREN GARDNER, B.A., Ph.D. (Clark); Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Associate Professor of Mathematics, Syracuse University, Syracuse, N. Y. *613 South Crouse Avenue.*
1891,	June	BULLIS, ABRAM ROGERS, B.Sc., B.C.E. Macedon, Wayne County, N. Y.
1903,	Feb.	BURRELL, ELLEN LOUISA, B.A.; Professor of Pure Mathematics and Head of the Department, Wellesley College, Wellesley, Mass.
1904,	Oct.	BUSSEY, WILLIAM HENRY, M.A., Ph.D. (Chicago); Tutor in Mathematics, Columbia University, New York, N. Y. *520 West 123d Street.*
1891,	Apr.	BYERLY, WILLIAM ELWOOD, M.A., Ph.D. (Harvard); Editor of the *Annals of Mathematics;* Perkins Professor of Mathematics, Harvard University, Cambridge, Mass. *39 Hammond Street.*
1891,	June	CAIN, WILLIAM, C.E., M.A.; Professor of Mathematics, University of North Carolina, Chapel Hill, N. C.
1905,	Feb.	CAIRNS, WILLIAM DEWEESE, M.A.; Associate Professor of Mathematics, Oberlin College, Oberlin, Ohio. *Emilienstrasse 14[1], Göttingen, Germany.*

Date of Admission.		
1899,	Apr.	CAJORI, FLORIAN, M.Sc., Ph.D.; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Professor of Mathematics, Colorado College, Colorado Springs, Colo. *1119 Wood Avenue.*
1900,	Dec.	CAMPBELL, DONALD FRANCIS, Ph.D. (Harvard); Professor of Mathematics, Armour Institute of Technology, Chicago, Ill.
1897,	Oct.	CAPRON, PAUL, M.A.; Instructor in Mathematics, Williams College, Williamstown, Mass.
1906,	Apr.	CARMICHAEL, ROBERT DANIEL, B.A.; Professor of Mathematics, Alabama Presbyterian College for Men, Anniston, Alabama.
1906,	Oct.	CARPENTER, ALLEN FULLER, B.A.; Professor of Mathematics, Hastings College, Hastings, Neb. *233 East 7th Street.*
1906,	Feb.	CARTER, BENJAMIN EDWARD, M.A.; Instructor in Mathematics, Massachusetts Institute of Technology, Boston, Mass.
1905,	Dec.	CARVER, WALTER BUCKINGHAM, Ph.B., Ph.D. (Johns Hopkins); Instructor in Mathematics, Cornell University, Ithaca, N. Y. *404 Stewart Avenue,*
1896,	Apr.	CHACE, ARNOLD BUFFUM, M.A., D.Sc. (Brown). Providence, R. I. *324 Angell Street.*
1895,	Nov.	CHESSIN, ALEXANDER S., M.A., C.E., Ph.D.; Professor of Mathematics, Washington University, St. Louis, Mo.
1895,	Nov.	CHITTENDEN, J. BRACE, B.Sc., M.A., Ph.D. (Königsberg); Professor of Mathematics, Brooklyn Polytechnic Institute, Brooklyn, N. Y.
1891,	Apr.	CLARK, JOHN EMORY, M.A.; Emeritus Professor of Mathematics, Yale University, New Haven, Conn. *34 South Park Terrace,* Longmeadow, Mass.
1900,	Dec.	CLARKE, JOHN EASTMAN, B.A., Ph.D. (Boston); Principal of the Gilbert School, Winsted, Conn.
1896,	Sept.	CLUTZ, FRANK HOLLINGER, B.A., Ph.D. (Johns Hopkins); Civil Engineer, Nelson Construction Company, Chambersburg, Pa. *Fifth Avenue.*
1906,	Feb.	COAR, HENRY LIVINGSTON, M.A., Ph.D. (Illinois); Associate Professor of Mathematics, Marietta College, Marietta, Ohio. *528 Fourth Street.*

Date of Admission.		
1902,	Dec.	Coble, Arthur B., M.A., Ph.D. (Johns Hopkins); Instructor in Mathematics, Johns Hopkins University, Baltimore, Md.
1905,	Dec.	Coddington, Emily, M.A., Ph.D. (Columbia). *24 West 58th Street*, New York, N. Y.
1893,	Feb.	Cohen, Abraham, B.A., Ph.D. (Johns Hopkins); Co-editor of the *American Journal of Mathematics;* Associate in Mathematics, Johns Hopkins University, Baltimore, Md.
1891,	Apr.	*Cole, Frank Nelson, B.A., Ph.D. (Harvard); Editor of the *Bulletin of the American Mathematical Society;* Professor of Mathematics, Columbia University, New York, N. Y.
1899,	Dec.	Collins, Joseph Victor, B.Ph., Ph.D.; Teacher of Mathematics, State Normal School, Stevens Point, Wis. *217 Division Street.*
1906,	Sept.	Colpitts, Elmer Clifford, B.A. *152 West Baker Street*, Atlanta, Ga.
1903,	Aug.	Comstock, Clarence Elmer, M.A.; Assistant Professor of Mathematics and Head of the Department, Bradley Polytechnic Institute, Peoria, Ill.
1898,	Feb.	Comstock, Elting Houghtaling, B.Sc.; Instructor in Mathematics, School of Mines, University of Minnesota, Minneapolis, Minn. *1530 Como Avenue, S. E.*
1892,	Oct.	Conant, Levi Leonard, M.A., Ph.D.; Professor of Mathematics, Worcester Polytechnic Institute, Worcester, Mass.
1906,	Sept.	Constantius, Brother, M.A., Ph.D. (St. Louis), LL.D.; Vice-President and Professor of Mathematics, Christian Brothers College, St. Louis, Mo.
1904,	Sept.	Converse, Henry A., B.A., Ph.D. (Johns Hopkins); Professor of Mathematics, Davis and Elkins College, Elkins, W. Va.
1900,	June	Coolidge, Julian Lowell, B.A., B.Sc., Ph.D. (Bonn); Instructor in Mathematics, Harvard University, Cambridge, Mass. *7 Fayerweather Street.*
1902,	Dec.	Cornish, William Aaron, B.A.; Instructor in Mathematics, State Normal School, Cortland, N. Y. *2 Stewart Place.*

Date of Admission.		
1903,	Feb.	COWLEY, ELIZABETH BUCHANAN, M.A.; Member of the Circolo Matematico di Palermo; Instructor in Mathematics, Vassar College, Poughkeepsie, N. Y.
1900,	Dec.	CRATHORNE, ARTHUR R., B.A. *Gaussstrasse 4, Göttingen, Germany.*
1891,	Apr.	CRAWLEY, EDWIN SCHOFIELD, B.Sc., Ph.D. (Pennsylvania); Member of the Deutsche Mathematiker-Vereinigung; Thomas A. Scott Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa.
1903,	Oct.	CUMMINGS, LOUISE DUFFIELD, M.A.; Instructor in Mathematics, Vassar College, Poughkeepsie, N. Y.
1905,	Oct.	*CUNNINGHAM, ALLAN JOSEPH CHAMPNEYS, Lieutenant Colonel R. E., retired; Member of the London Mathematical Society; Fellow of King's College, London. *20 Essex Villas, Kensington,* London, W., England.
1891,	Dec.	CUNNINGHAM, SUSAN J., Professor of Mathematics and Astronomy, Swarthmore College, Swarthmore, Pa.
1900,	Dec.	CURJEL, HARALD WORTHINGTON, M.A.; F.I.A.; Member of the London Mathematical Society; Royal Insurance Company, Mexico, D. F., Mexico. *Empadradillo 9.*
1904,	Oct.	CURTIS, ARTHUR MILLS, B.Sc.; Instructor in Mathematics, State Normal and Training School, Oneonta, N. Y.
1902,	Feb.	CURTISS, DAVID RAYMOND, M.A., Ph.D. (Harvard); Member of the Société Mathématique de France; Assistant Professor of Mathematics, Northwestern University, Evanston, Ill. *1939 Sherman Avenue.*
1906,	Oct.	DADOURIAN, HAROUTUNE MUGURDICH, M.A., Ph.D. (Yale); Instructor in Physics, Sheffield Scientific School, Yale University, New Haven, Conn. *299 York Street.*
1900,	Oct.	DAVIS, CHARLES HENRY. *25 Broad Street,* New York, N. Y.
1891,	Apr.	DAVIS, ELLERY WILLIAMS, B.Sc., Ph.D. (Johns Hopkins); Head Professor of Mathematics and Dean of the College of Literature, Science and the Arts, University of Nebraska, Lincoln, Neb.
1903,	Aug.	*DAVIS, HARVEY NATHANIEL, Ph.D.; Instructor in Physics and in Mathematics, Harvard University, Cambridge, Mass. *71 Perkins Hall.*

Date of Admission.		
1891,	Apr.	DAVIS, NATHANIEL FRENCH, M.A., LL.D.; Professor of Pure Mathematics, Brown University, Providence, R. I. *159 Brown Street.*
1905,	Feb.	DAVISSON, SCHUYLER COLFAX, M.A., Sc.D.; Junior Professor of Mathematics, Indiana University, Bloomington, Ind. *515 East Third Street.*
1904,	Oct.	DEAN, GEORGE REINALD, B.Sc., C.E.; Professor of Mathematics, School of Mines, University of Missouri, Rolla, Mo.
1905,	Oct.	DECHERD, MARY ELIZABETH, M.A.; Tutor in Mathematics, University of Texas, Austin, Tex. *2313 Nueces Street.*
1903,	Feb.	DE COU, EDGAR EZEKIEL, M.Sc.; Assistant Professor of Mathematics, University of Oregon, Eugene, Ore. *719 Mill Street.*
1900,	Dec.	DEFOE, LUTHER MARION, Member of the London Mathematical Society; Professor of Mechanics, University of Missouri, Columbia, Mo.
1903,	Dec.	DEIMEL, RICHARD FRANCIS, M.A.; Lecturer in Physics, Columbia University, New York, N. Y. *209 West 97th Street.*
1891,	May	DELONG, IRA MITCHELL, M.A.; Professor of Mathematics, University of Colorado, Boulder, Colo. *1341 Broadway.*
1895,	Jan.	DELURY, ALFRED TENNYSON, M.A.; Associate Professor of Mathematics, University of Toronto, Toronto, Canada.
1892,	Jan.	*DENNETT, WILLIAM SAWYER, B.A., M.D. *8 East 49th Street,* New York, N. Y.
1896,	Nov.	DICKSON, LEONARD EUGENE, B.Sc., M.A., Ph.D. (Chicago); Member of the London Mathematical Society; Associate Editor of the *Transactions of the American Mathematical Society;* Associate Editor of the *American Mathematical Monthly;* Assistant Professor of Mathematics, University of Chicago, Chicago, Ill.
1904,	Apr.	DIMICK, CHESTER EDWARD, B.A.; Instructor of Cadets, U. S. Revenue Cutter Service, Arundel Cove, South Baltimore, Md.
1904,	Sept.	DODD, EDWARD LEWIS, M.A., Ph.D. (Yale); Instructor in Mathematics, University of Illinois, Urbana, Ill. *Box 115, University Station.*

Date of Admission.		
1905,	Dec.	DOHMEN, FRANZ JOSEPH, B.Lit., Ph.D. (Greifswald); Member of the Deutsche Mathematiker-Vereinigung; Honorary Lecturer in Mathematics, University of Texas, Austin, Tex. *1913 Whitis Avenue.*
1897,	Apr.	DOWLING, LINNÆUS WAYLAND, Ph.D. (Clark); Assistant Professor of Mathematics, University of Wisconsin, Madison, Wis. *234 Breese Terrace.*
1901,	Feb.	DOWNEY, JOHN F., C.E., M.Sc., M.A.; Professor of Mathematics and Dean of the College of Science, Literature and the Arts, University of Minnesota, Minneapolis, Minn.
1906,	Sept.	DROKE, GEORGE WESLEY, M.A.; Professor of Mathematics and Astronomy, University of Arkansas, Fayetteville, Ark. *103 Hill Street.*
1902,	Apr.	DUKE, FRANK WILLIAMSON, B.A.; Professor of Mathematics, Hollins Institute, Hollins, Va.
1902,	Oct.	DUNKEL, OTTO, M.E., M.A., Ph.D. (Harvard); Instructor in Mathematics, University of Minnesota, Minneapolis, Minn. *516 Fourth Street, S. E.*
1891,	Apr.	DURELL, FLETCHER, B.A., Ph.D.; Master in Mathematics, Lawrenceville School, Lawrenceville, N. J.
1891,	Apr.	DURFEE, WILLIAM PITT, B.A., Ph.D. (Johns Hopkins); Professor of Mathematics and Dean of the Faculty, Hobart College, Geneva, N. Y. *639 Main Street.*
1904,	Feb.	DUVAL, EDMUND PENDLETON RANDOLPH, B.Sc., M.A.; Instructor in Mathematics, University of Wisconsin, Madison, Wis. *915 University Avenue.*
1891,	Apr.	ECHOLS, WILLIAM HOLDING, B.Sc.; Professor of Mathematics, University of Virginia, Charlottesville, Va.
1891,	Apr.	EDDY, HENRY TURNER, C.E., M.A., Ph.D., LL.D.; Professor of Engineering and Mechanics and Dean of the Graduate School, University of Minnesota, Minneapolis, Minn. *916 Sixth Street, S. E.*
1896,	Dec.	EDMONDSON, THOMAS WILLIAM, B.A., Ph.D. (Clark); Professor of Mathematics, New York University, New York, N. Y. *University Heights.*
1902,	Sept.	EDWARDS, GEORGE CUNNINGHAM, B.Ph.; Associate Professor of Mathematics, University of California, Berkeley, Cal.
1894,	June	EIMBECK, WILLIAM; Assistant in the U. S. Coast and Geodetic Survey, Washington, D. C.

Date of Admission.		
1900,	Dec.	*Eisenhart, Luther Pfahler, B.A., Ph.D. (Johns Hopkins); Assistant Professor of Mathematics, Princeton University, Princeton, N. J. *63 Little Hall.*
1898,	Feb.	*Elliott, Edwin Bailey, M.A.; F.R.S.; Member of the London Mathematical Society; F.R.A.S.; Waynflete Professor of Pure Mathematics and Fellow of Magdalen College, Oxford, England. *4 Bardwell Road.*
1896,	Nov.	Emch, Arnold, M.Sc., Ph.D. (Kansas); Member of the Circolo Matematico di Palermo; Member of the Schweizerische Naturforschende Gesellschaft; Professor of Mathematics, Cantonal College, Solothurn, Switzerland.
1898,	Apr.	Engberg, Carl Christian, B.Sc., M.A., Ph.D. (Nebraska); Assistant Professor of Mathematics, University of Nebraska, Lincoln, Neb.
1892,	Mar.	Engler, Edmund Arthur, M.A., Ph.D., LL.D.; President of the Worcester Polytechnic Institute, Worcester, Mass. *11 Boynton Street.*
1903,	Oct.	English, Harry, B.A., LL.M.; Director of Mathematics, Washington High Schools, Washington, D. C. *2907 P Street, N. W.*
1904,	Sept.	Epsteen, Saul, B.Sc., Ph.D. (Zurich); Member of the Deutsche Mathematiker-Vereinigung; Associate Editor of *School Science ana Mathematics;* Assistant Professor of Mathematics, University of Colorado, Boulder, Colo. *1149 Twelfth Street.*
1898,	Oct.	*Escott, Edward Brind, M.Sc.; Instructor in Mathematics, University of Michigan, Ann Arbor, Mich. *1825 Hill Street.*
1901,	Dec.	Esty, Thomas Cushing, M.A.; Professor of Mathematics, Amherst College, Amherst, Mass.
1891,	May	Esty, William Cole, LL.D.; Emeritus Professor of Mathematics and Astronomy, Amherst College, Amherst, Mass.
1905,	Sept.	Evans, Henry Brown, M.E., Ph.D. (Pennsylvania); Member of the Astronomical and Astrophysical Society of America; Assistant Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa. *College Hall.*
1899,	Feb.	Faught, John Brookie, M.A., Ph.D.; Professor of Mathematics, Northern State Normal School, Marquette, Mich. *1312 Presque Isle Avenue.*

Date of Admission.		
1901,	Feb.	FERRY, FREDERICK CARLOS, M.A., Ph.D. (Clark); Professor of Mathematics and Dean, Williams College, Williamstown, Mass.
1900,	June	FIELD, PETER, M.Sc., Ph.D. (Cornell); Instructor in Mathematics, University of Michigan, Ann Arbor, Mich.
1891,	May	FIELDS, JOHN CHARLES, Ph.D. (Johns Hopkins); Member of the Société Mathématique de France; Associate Professor of Mathematics, University of Toronto, Toronto, Canada. *330 Huron Street.*
1901,	Oct.	FINDLAY, WILLIAM, M.A., Ph.D. (Chicago); Professor of Mathematics, McMaster University, Toronto, Canada.
1891,	May	FINE, HENRY BURCHARD, M.A., Ph.D. (Leipzig); Professor of Mathematics, Princeton University, Princeton, N. J.
1891,	June	FINKEL, BENJAMIN FRANKLIN, Ph.D.; Member of the London Mathematical Society; Member of the Circolo Matematico di Palermo; Editor of the *American Mathematical Monthly;* Professor of Mathematics and Physics, Drury College, Springfield, Mo. *1227 Clay Street.*
1899,	Feb.	FISHBURNE, EDWARD BELL, JR., B.Sc., M.A.; President of the Hoge Memorial Military Academy, Blackstone, Va.
1891,	Oct.	FISHER, GEORGE EGBERT, M.A., Ph.D.; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Assistant Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa.
1895,	Jan.	FISHER, IRVING, B.A., Ph.D. (Yale); Professor of Political Economy, Yale University, New Haven, Conn. *460 Prospect Street.*
1888,	Nov.	*FISKE, THOMAS SCOTT, M.A., Ph.D. (Columbia); EX-PRESIDENT; Member of the London Mathematical Society; Professor of Mathematics, Columbia University, New York, N. Y.
1897,	Feb.	FITCH, ANNIE LOUISE MACKINNON (MRS. EDWARD), M.Sc., Ph.D. Clinton, N. Y.
1901,	Oct.	FITE, WILLIAM BENJAMIN, Ph.D. (Cornell); Assistant Professor of Mathematics, Cornell University, Ithaca, N. Y. *127 Eddy Street.*

Date of Admission.		
1904,	Oct.	FLEET, ROBERT RYLAND, M.A., Ph.D. (Heidelberg); Professor of Mathematics, William Jewell College, Liberty, Mo.
1894,	Oct.	FLOWERS, ROBERT LEE, Graduate of the U. S. Naval Academy; Professor of Mathematics, Trinity College, Durham, N. C.
1903,	Dec.	FORBES, CHARLES SAVAGE, M.A., Ph.D. (Columbia); Assistant Statistician, Casualty Company of America, New York, N. Y. *133 East 30th Street.*
1900,	Apr.	FORD, ROBERT DALE, M.Sc.; Professor of Mathematics, St. Lawrence University, Canton, N. Y.
1899,	Aug.	*FORD, WALTER B., M.A., Ph.D. (Harvard); Member of the Société Mathématique de France; Instructor in Mathematics, University of Michigan, Ann Arbor, Mich. *617 Forest Avenue.*
1899,	Dec.	FORSYTH, ANDREW RUSSELL, Sc.D. (Cambridge, Dublin, Victoria, Oxford), LL.D. (Glasgow, Aberdeen); Math. D. (Christiania); F.R.S.; Hon. F.R.S.E.; Corresponding Associate of the Reale Istituto Lombardo; Member and Ex-President of the London Mathematical Society; Honorary Member of the Manchester Literary and Philosophical Society; Member of the Cambridge Philosophical Society; F.R.A.S.; Sadlerian Professor of Pure Mathematics and Fellow of Trinity College, Cambridge University, Cambridge, England.
1893,	Dec.	FRANKLAND, FREDERICK WILLIAM, F.I.A.; Member of the Actuarial Society of America. Foxton, New Zealand.
1892,	Dec.	FRANKLIN, FABIAN, B.Ph., Ph.D. (Johns Hopkins), LL.D.; Associate Fellow of the American Academy of Arts and Sciences. *103 West Monument Street,* Baltimore, Md.
1903,	Feb.	FRAZER, FRANK DEAN, B.Sc., M.A. *2321 Osgood Street,* Allegheny, Pa.
1905,	Feb.	FRENCH, JOHN SHAW, B.A., Ph.D. (Clark); Member of the Circolo Matematico di Palermo; Professor of Mathematics, Jacob Tome Institute, Port Deposit, Md.
1895,	Nov.	FRIZELL, ARTHUR BOWES, M.A.; Instructor in Mathematics, Harvard University, Cambridge, Mass. *Hainholzweg 46, Göttingen, Germany.*

Date of Admission.		
1892,	Oct.	GABLE, GEORGE DANIEL, M.A., Ph.D.; Hunt Professor of Mathematics and Secretary of the Faculty, Parsons College, Fairfield, Iowa.
1899,	Oct.	GALE, ARTHUR SULLIVAN, B.A., Ph.D. (Yale); Member of the Deutsche Mathematiker-Vereinigung; Fayerweather Professor of Mathematics, University of Rochester, Rochester, N. Y. *35 Vick Park, Avenue B.*
1899,	Aug.	GATES, FANNY COOK, M.Sc.; Professor of Physics, The Woman's College, Baltimore, Md.
1904,	Dec.	GAVETT, GEORGE IRVING, B.Sc.; Instructor in Civil Engineering, Cornell University, Ithaca, N. Y. *508 University Avenue.*
1903,	Dec.	GECKELER, OTTO THEODORE, B.A.; Professor of Mathematics, Georgia School of Technology, Atlanta, Ga.
1894,	Feb.	GENTRY, RUTH, Ph.B., Ph.D. (Bryn Mawr); Stilesville, Ind.
1897,	Dec.	GERMANN, GEORGE B., B.A., Ph.D. (Columbia); Principal of Public School No. 130, *Ocean Parkway and Fort Hamilton Avenue*, Brooklyn, N. Y.
1901,	Feb.	*GERRANS, HENRY TRESAWNA, M.A.; Member of the London Mathematical Society; Member of the Edinburgh Mathematical Society; Member of the Société Mathématique de France; Member of the Circolo Matematico di Palermo; Fellow and Tutor of Worcester College, Oxford, England.
1903,	Oct.	GIBSON, GEORGE ALEXANDER, M.A., LL.D.; Fellow of the Royal Society of Edinburgh; Honorary Member of the Edinburgh Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics in the Glasgow and West of Scotland Technical College, Glasgow, Scotland. *8 Sandyford Place, W.*
1904,	Apr.	GILLESPIE, WILLIAM, B.A., Ph.D. (Chicago); Assistant Professor of Mathematics, Princeton University, Princeton, N. J. *10 Nassau Street.*
1906,	Sept.	GINNINGS, ROBERT MEADE, B.A.; Assistant in Mathematics, Kirksville State Normal School, Kirksville, Mo. *1303 East Scott Street.*
1892,	June	GLAISHER, JAMES WHITBREAD LEE, M.A., Sc.D.; F.R.S.; F.R.A.S.; Editor of the *Messenger of Mathematics* and of the *Quarterly Journal of Pure and Applied Mathematics;* Fellow of Trinity College, Cambridge, England.

Date of Admission.		
1891,	May	GLASHAN, JOHN CADENHEAD, LL.D.; Fellow of the Royal Society of Canada; Inspector of Public Schools, School Inspector's Office, Ottawa, Canada.
1906,	Sept.	GLAZIER, HARRIET ENDORA, B.A.; Professor of Mathematics, The Western College for Women, Oxford, Ohio.
1905,	Dec.	GLENN, OLIVER EDMUNDS, M.A., Ph.D. (Pennsylvania); Instructor in Mathematics, University of Pennsylvania, Philadelphia, Pa. *College Hall.*
1896,	Nov.	GLOVER, JAMES WATERMAN, M.A., Ph.D. (Harvard); Member of the Deutscher Verein für Versicherungs-Wissenschaft; Junior Professor of Mathematics and Insurance, University of Michigan, Ann Arbor, Mich. *1312 Geddes Avenue.*
1904,	Feb.	GOODENOUGH, GEORGE ALFRED, M.E.; Assistant Professor of Mechanical Engineering, University of Illinois, Urbana, Ill. *607 West Elm Street.*
1897,	Oct.	GORE, JOHN KINSEY, M.A.; Fellow of the Actuarial Society of America; Actuary of the Prudential Insurance Company, Newark, N. J.
1902,	Feb.	GOULD, ALICE BACHE, B.A. *535 Beacon Street,* Boston, Mass.
1903,	Oct.	GOULD, MARY FRANCES, B.A.; Teacher of Mathematics, Dedham High School, Dedham, Mass.
1904,	Dec.	GRABER, MYRON EARLE, M.A.; Member of the Circolo Matematico di Palermo; Professor of Physics, Heidelberg University, Tiffin, O. *40 Circular Street.*
1903,	Aug.	GRAHAM, WILLIAM JOSEPH, B.A.; Fellow of the Actuarial Society of America; Consulting Actuary of the American School of Insurance; Vice-President and Actuary of the Northwestern National Life Insurance Company, Minneapolis, Minn.
1904,	Oct.	GRANT, ELMER DANIEL, M.A.; Assistant Professor of Mathematics and Physics, Michigan College of Mines, Houghton, Mich.
1897,	May	GRANVILLE, WILLIAM ANTHONY, B.Ph., Ph.D. (Yale); Instructor in Mathematics, Yale University, New Haven, Conn. *118 Howe Street.*
1906,	Oct.	GRAVATT, THOMAS E., B.Sc.; Instructor in Mathematics, Pennsylvania State College, State College, Pa.
1904,	Apr.	GRAY, CLIFFORD, E.E., M.A. *206 West 119th Street,* New York, N. Y.

Date of Admission.		
1891,	June	GREEN, RUFUS LOT, B.Sc., M.A.; Professor of Mathematics, Stanford University, Cal.
1897,	Oct.	*GREENHILL, ALFRED GEORGE, M.A.; F.R.S.; Member of the London Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, Ordnance College, Woolwich, England.
1900,	June	GREENSTREET, WILLIAM JOHN, M.A.; Member of the London Mathematical Society; Member of the Edinburgh Mathematical Society; F.R.A.S.; Editor of the *Mathematical Gazette;* Headmaster of the Marling School, Stroud, Gloucestershire, England.
1901,	Oct.	GREENWOOD, GEORGE WILLIAM, M.A.; Professor of Mathematics, Roanoke College, Salem, Va.
1906,	Apr.	GRIFFIN, FRANK LOXLEY, B.Sc., M.Sc., Ph.D. (Chicago); Instructor in Mathematics, Williams College, Williamstown, Mass.
1893,	Dec.	GRIFFITHS, IDA, B.A. *112 West 78th Street,* New York, N. Y.
1899,	Oct.	*GROAT, BENJAMIN FELAND, B.Sc.; Professor of Mechanics and Mathematics, School of Mines, University of Minnesota, Minneapolis, Minn.
1905,	Sept.	*GUCCIA, NOB. GIOVANNI BATTISTA, DEI MARCHESI DI GANZARIA, Math.D.; Member of the Royal Academy of Sciences, Letters and Fine Arts of Palermo; Member of the Kaiserliche Leopoldinisch-Carolinische Deutsche Akademie der Naturforscher; Corresponding Member of the Royal Society of Liége; Member of the Société Mathématique de France; Member of the Deutsche Mathematiker-Vereinigung; Corresponding Member of the Société Philomathique de Paris; Member of the International Commission of the *Répertoire Bibliographique des Sciences Mathématiques;* Director of the *Rendiconti del Circolo Matematico di Palermo;* Professor of Higher Geometry, University of Palermo, Palermo, Italy. *Via Ruggiero Settimo, 30.*
1894,	June	*GUMMERE, HENRY VOLKMAR, B.Sc., M.A.; Professor of Mathematics, Drexel Institute, Philadelphia, Pa. *229 South 44th Street.*
1902,	Feb.	GUNDERSEN, CARL, M.A., Ph.D. (Columbia); Instructor in Mathematics, Michigan Agricultural College, Agricultural College, Mich.

Date of Admission.		
1906,	Sept.	GUNTHER, CHARLES OTTO, M.E.; Member of the American Society of Mechanical Engineers; Assistant Professor of Mathematics and Mechanics, Stevens Institute of Technology, Hoboken, N. J.
1902,	Dec.	HALL, ARTHUR GRAHAM, B.Sc., Ph.D. (Leipzig); Professor of Mathematics, Miami University, Oxford, Ohio.
1891,	Nov.	HALL, ASAPH, JR., B.A., Ph.D. (Yale); Member of the Astronomische Gesellschaft. U. S. Naval Observatory, Washington, D. C.
1894,	Oct.	HALLETT, GEORGE HERVEY, M.A., Ph.D.; Member of the London Mathematical Society; Assistant Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa. *College Hall.*
1891,	May	HALSTED, GEORGE BRUCE, M.A., Ph.D. (Johns Hopkins); Member of the Société Mathématique de France; Member of the London Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; F.R.A.S.; Professor of Mathematics, State Normal School of Colorado, Greeley, Colo.
1899,	Aug.	HAMMERSLOUGH, CARRIE, M.A. *1215 Madison Avenue,* New York, N. Y.
1901,	Oct.	*HANAWALT, FRANCIS WAYLAND, M.A.; Professor of Mathematics and Astronomy, Albion College, Albion, Mich. *201 North Ingham Street.*
1902,	Dec.	HANCOCK, EDWARD LEE, M.Sc.; Assistant Professor of Applied Mechanics, Purdue University, Lafayette, Ind. *532 South Ninth Street.*
1895,	Apr.	HANCOCK, HARRIS, B.A., Ph.D. (Berlin), D.Sc. (Paris); Member of the London Mathematical Society; Member of the Société Mathématique de France; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Professor of Mathematics, University of Cincinnati, Cincinnati, Ohio. *Auburn Hotel, Mount Auburn.*
1900,	Dec.	HANNA, ULYSSES S., M.A., Ph.D. (Pennsylvania); Assistant Professor of Mathematics, Indiana University, Bloomington, Ind. *828 Atwater Avenue.*
1894,	Feb.	*HARDCASTLE, FRANCES, Member of the London Mathematical Society. *25 Boundary Road,* St. John's Wood, London, N. W., England.

Date of Admission.		
1902,	Apr.	HARDY, JAMES GRAHAM, M.A., Ph.D.; Associate Professor of Mathematics, Williams College, Williamstown, Mass.
1891,	May	*HARKNESS, JAMES, M.A.; Professor of Mathematics, McGill University, Montreal, Canada.
1891,	Apr.	HART, JAMES NORRIS, C.E., M.Sc.; Professor of Mathematics and Astronomy, University of Maine, Orono, Me.
1905,	Oct.	HART, WALTER WILSON, B.A.; Teacher of Mathematics, Shortridge High School, Indianapolis, Ind.
1904,	Feb.	HARVEY, HENRY CLAY, M.Sc.; Professor of Mathematics, State Normal School, Kirksville, Mo. *1315 East Normal Avenue.*
1899,	Dec.	HASKELL, MELLEN WOODMAN, M.A., Ph.D. (Göttingen); Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Professor of Mathematics, University of California, Berkeley, Cal. *P. O. Box 3.*
1903,	Feb.	HASKINS, CHARLES NELSON, B.Sc., Ph.D. (Harvard); Assistant Professor of Mathematics, University of Illinois, Urbana, Ill. *805 South Goodwin Avenue.*
1891,	May	HATHAWAY, ARTHUR STAFFORD, B.Sc., Professor of Mathematics, Rose Polytechnic Institute, Terre Haute, Ind. *2206 North Tenth Street.*
1901,	Feb.	HAVILAND, EDWIN, JR., B.Sc., M.A. Acting Assistant Professor of Mathematics, University of Washington, Seattle, Washington.
1898,	Aug.	HAWKES, HERBERT EDWIN, B.A., Ph.D. (Yale); Member of the Deutsche Mathematiker-Vereinigung; Assistant Professor of Mathematics, Yale University, New Haven, Conn. *45 Huntington Street.*
1906,	Oct.	HAWKESWORTH, REV. ALAN SPENCER. *1008 Western Avenue,* Allegheny, Pa.
1894,	Aug.	HAY, GUSTAVUS, B.A., M.D. *1 Hathaway Street,* Jamaica Plain, Mass.
1905,	Dec.	HAYNES, ELI STUART, B.A.; Assistant in the Laws Observatory, University of Missouri, Columbia, Mo. *805 Elm Street.*

Date of Admission.

1901, Aug. HEDRICK, EARLE RAYMOND, M.A., Ph.D. (Göttingen); Member of the Société Mathématique de France; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Professor and Head of the Department of Mathematics, University of Missouri, Columbia, Mo. *302 South Ninth Street.*

1900, Dec. HEWES, LAURENCE ILSLEY, B.Sc., Ph.D. (Yale); Instructor in Mathematics, Yale University, New Haven, Conn. *179 Bradley Street.*

1904, Oct. HIGDON, JOHN E., B.A.; Assistant Actuary of The State Life Insurance Company, Indianapolis, Ind. *State Life Building.*

1892, Dec. HILL, GEORGE WILLIAM, Ph.D., Sc.D., LL.D.; EX-PRESIDENT; Member of the National Academy of Sciences; Corresponding Member of the Paris Academy of Sciences; Foreign Member of the Royal Society of London; Foreign Associate of the Royal Astronomical Society. West Nyack, N. Y.

1905, Sept. HILTEBEITEL, ADAM MILLER, M.A., Ph.D. (Princeton); Head of the Department of Mathematics, Peekskill Military Academy, Peekskill, N. Y.

1898, Dec. HIMOWICH, ADOLPH A., M.Sc., M.D. *130 Henry Street,* New York, N. Y.

1894, Mar. HITCHCOCK, FANNY R. M., Ph.D. *4038 Walnut Street,* Philadelphia, Pa.

1905, Feb. HODGE, FREDERICK HUMBERT, M.A.; Assistant Professor of Mathematics, Collegiate Department, Clark University, Worcester, Mass.

1902, Apr. HODGKINS, HOWARD LINCOLN, M.A., Ph.D. (George Washington); Professor and Head of the Department of Physics and Dean of the Washington College of Engineering, George Washington University, Washington, D. C.

1895, Feb. HOLGATE, THOMAS FRANKLIN, M.A., Ph.D. (Clark), LL.D.; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics and Dean of the College of Liberal Arts, Northwestern University, Evanston, Ill. *617 Library Street.*

1903, Dec. HOOK, EDWARD ALFRED, M.Sc., M.A.; Teacher of Mathematics, Commercial High School, Brooklyn, N. Y. *1271 St. John's Place.*

Date of Admission.		
1902,	Dec.	HOSKINS, LEANDER MILLER, C.E., M.Sc.; Professor of Applied Mathematics, Stanford University, Palo Alto, Cal.
1891,	May	HOWE, CHARLES SUMNER, Ph.D., Sc.D.; F.R.A.S.; Member of the Astronomical and Astrophysical Society of America; President of the Case School of Applied Science, Cleveland, Ohio.
1891,	May	HOWE, HERBERT ALONZO, M.A., Sc.D.; Member of the Astronomische Gesellschaft; Member of the Astronomical and Astrophysical Society of America; Director of the Chamberlin Observatory of the University of Denver, University Park, Col.
1891,	May	HULBURT, LORRAIN SHERMAN, B.A., Ph.D. (Johns Hopkins); Collegiate Professor of Mathematics, Johns Hopkins University, Baltimore, Md.
1904,	Feb.	HUN, JOHN GALE, Ph.D. (Johns Hopkins); Instructor in Mathematics, Princeton University, Princeton, N. J.
1901,	Oct.	HUNTINGTON, EDWARD VERMILYE, M.A., Ph.D. (Strassburg); Member of the Deutsche Mathematiker-Vereinigung; Editor of the *Annals of Mathematics;* Assistant Professor of Mathematics, Harvard University, Cambridge, Mass. *35 Fairfax Hall.*
1906,	Sept.	HURWITZ, WALLIE ABRAHAM, B.Sc., M.A. *1170 Massachusetts Avenue,* Cambridge, Mass.
1891,	Apr.	HUSSEY, WILLIAM J., B.Sc.; Foreign Associate of the Royal Astronomical Society; Professor of Astronomy and Director of the Observatory, University of Michigan, Ann Arbor, Mich.
1896,	Nov.	HUTCHINSON, JOHN IRWIN, B.A., Ph.D. (Chicago); Associate Editor of the *Transactions of the American Mathematical Society;* Assistant Professor of Mathematics, Cornell University, Ithaca, N. Y. *Cornell Heights.*
1891,	May	HYDE, EDWARD WYLLYS, C.E.; Actuary of the Columbia Life Insurance Company, Cincinnati, Ohio. *814 Lincoln Avenue, Station D.*
1904,	Apr.	INGOLD, LOUIS, M.A.; Instructor in Mathematics, University of Missouri, Columbia, Mo. *5546 Ingleside Avenue, Chicago, Ill.*

Date of Admission.		
1901,	Dec.	JACKSON, LAMBERT LINCOLN, M.A., Ph.D.; Head of the Educational Department of D. Appleton and Company, New York, N. Y. *401 West 117th Street.*
1892,	Jan.	JACOBUS, DAVID S., M.E.; Advisory Engineer, The Babcock and Wilcox Company, New York, N. Y.; Special Lecturer in Experimental Engineering, Stevens Institute of Technology, Hoboken, N. J. *85 Liberty Street, New York, N. Y.*
1888,	Nov.	JACOBY, HAROLD, Ph.D. (Columbia); Member of the Astronomische Gesellschaft; F.R.A.S.; Rutherford Professor of Astronomy, Columbia University, New York, N. Y. *333 West 76th Street.*
1893,	Feb.	JAMES, JOHN NELSON, B.A.; Professor of Mathematics, Epworth University, Oklahoma, O. T.
1905,	Dec.	JEANS, JAMES HOPWOOD, M.A.; F.R.S.; Fellow of Trinity College, Cambridge; Member of the London Mathematical Society; Professor of Applied Mathematics, Princeton, N. J.
1897,	Apr.	JOFFE, S. A., M.Sc.; Member of the Circolo Matematico di Palermo; Fellow of the Actuarial Society of America; The Mutual Life Insurance Company of New York. *55 Cedar Street,* New York, N. Y.
1906,	Feb.	JOHNSON, ANNA, M.A. *Bühlstrasse 10,* Göttingen, Germany.
1906,	Sept.	JOHNSON, BENJAMIN FRANKLIN, M.A.; Professor of Mathematics, Missouri State Normal School, Cape Girardeau, Mo.
1891,	Mar.	JOHNSON, WILLIAM WOOLSEY, M.A.; Member of the London Mathematical Society; Professor of Mathematics, U. S. Naval Academy, Annapolis, Md.
1904,	Oct.	KARPINSKI, LOUIS CHARLES, B.A., Ph.D. (Strassburg); Member of the Deutsche Mathematiker-Vereinigung; Instructor in Mathematics, University of Michigan, Ann Arbor, Mich. *735 South 12th Street.*
1899,	Oct.	*KASNER, EDWARD, M.A., Ph.D. (Columbia); Associate Editor of the *Transactions of the American Mathematical Society;* Adjunct Professor of Mathematics, Columbia University, New York, N. Y. *22 West 119th Street.*
1903,	Oct.	KELLOGG, OLIVER DIMON, M.A., Ph.D. (Göttingen); Assistant Professor of Mathematics, University of Missouri, Columbia, Mo. *709 Missouri Avenue.*

Date of Admission.

1891, Dec. KENNELLY, A. E., M.A., D.Sc.; F.R.A.S. Harvard University, Cambridge, Mass.

1900, Dec. KENYON, ALFRED MONROE, M.A.; Professor of Mathematics, Purdue University, Lafayette, Ind. *103 Waldron Street*, West Lafayette.

1897, Aug. KEPPEL, HERBERT G., B.A., Ph.D. (Clark); Member of the Amsterdam Mathematical Society; Instructor in Mathematics, Northwestern University, Evanston, Ill. *616 Foster Street.*

1892, Oct. KERR, WILLIAM JASPER, D.Sc.; President of the Agricultural College of Utah, Logan, Utah.

1897, Aug. KEYSER, CASSIUS JACKSON, B.Sc., M.A., Ph.D. (Columbia); Member of the Circolo Matematico di Palermo; American Editorial Representative of the *Hibbert Journal;* Editor for the Department of Pure Mathematics of the *Encyclopedia Americana;* Adrain Professor of Mathematics, Columbia University, New York, N. Y.

1906, Oct. KISELJAK, MARIO, M.A., Ph.D. (Vienna); Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Professor of Mathematics and Physics, State College, Sušak, Croatia. *Sušak near Fiume, Hungary.*

1904, Apr. KNEPPER, MYRTLE, B.L., M.A.; Assistant in Mathematics, State Normal School, Cape Girardeau, Mo.

1891, Dec. KNISELY, ALEXANDER, B.Sc. Columbia City, Ind.

1903, Apr. KOCH, ERNEST HERMAN, JR., B.Sc.; Instructor in Mathematics, Pratt Institute, Brooklyn, N. Y. *421 Park Place.*

1901, Oct. KUHN, HARRY WALDO, Ph.D. (Cornell); Assistant Professor of Mathematics, Ohio State University, Columbus, Ohio. *308 West Eighth Avenue.*

1894, Apr. *LADUE, POMEROY, B.Sc. Michigan United Railways Company, Lansing, Mich.

1893, Dec. LAMBERT, PRESTON ALBERT, M.A.; Assistant Professor of Mathematics, Lehigh University, South Bethlehem, Pa. *215 South Center Street*, Bethlehem, Pa.

1906, Feb. LAMBERT, WALTER DAVIS, M.A. U. S. Coast and Geodetic Survey, Washington, D. C.

1897, Jan. LANDIS, WILLIAM WEIDMAN, M.A., Sc.D.; Member of the Circolo Matematico di Palermo; Professor of Mathematics, Dickinson College, Carlisle, Pa.

Date of Admission.		
1898,	Apr.	LANZA, GAETANO, B.Sc., C. and M.E.; Professor of Theoretical and Applied Mechanics, in charge of the Department of Mechanical Engineering, Massachusetts Institute of Technology, Boston, Mass.
1906,	Oct.	LASKER, EMANUEL, Ph.D. (Erlangen). *116 Nassau Street*, New York, N. Y.
1897,	May	LAVES, KURT, M.A., Ph.D. (Berlin); Member of the Astronomische Gesellschaft; Assistant Professor of Astronomy, University of Chicago, Chicago, Ill.
1889,	Dec.	LEGRAS, GUSTAVE, M.Sc.; Associate Professor of Mathematics, College of the City of New York. *138th Street and Amsterdam Avenue*, New York, N. Y.
1900,	Oct.	LEHMER, DERRICK NORMAN, M.A., Ph.D. (Chicago); Assistant Professor of Mathematics, University of California, Berkeley, Cal. *2736 Regent Street.*
1903,	Aug.	LENNES, NELS JOHANN, M.Sc.; Instructor in Mathematics, Wendell Phillips High School, Chicago, Ill. *5622 Ellis Avenue.*
1905,	Apr.	LEONARD, HEMAN BURR, B.Sc., Ph.D. (Colorado). University of Oregon, Eugene, Ore.
1904,	Oct.	LESTER, OLIVER CLARENCE, M.A., Ph.D. (Yale); Instructor in Physics, Sheffield Scientific School, Yale University, New Haven, Conn. *99 Edgewood Avenue.*
1892,	Feb.	LEUSCHNER, ARMIN OTTO, B.A., Ph.D. (Berlin), Sc.D.; Member of the Astronomische Gesellschaft; F.R.A.S.; Associate Professor of Astronomy and Geodesy, and Director of the Students' Observatory, University of California, Berkeley, Cal. *2333 Cedar Street.*
1904,	Sept.	LEVI-CIVITA, TULLIO, Math.D. (Padua); Corresponding Member of the Reale Academia dei Lincei; Corresponding Member of the Académie Impériale des Sciences de Saint-Pétersbourg; Foreign Member of the Kaiserliche Leopoldinisch-Carolinische Deutsche Akademie der Naturforscher; Corresponding Member of the Reale Istituto Veneto; Member of the Société Mathématique de France; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Professor of Theoretical Mechanics, University of Padua, Padua, Italy. *Via Altinate, 14.*
1894,	June	LING, GEORGE HERBERT, Ph.D. (Columbia); Instructor in Mathematics, Columbia University, New York, N. Y.

Date of Admission.		
1900,	Dec.	LITTLE, CHARLES NEWTON, B.A., Ph.D. (Yale); Professor of Civil Engineering, University of Idaho, Moscow, Id.
1900,	June	LOCKE, LESLIE LELAND, M.A. *404 Quincy Street*, Brooklyn, N. Y.
1906,	Apr.	LONGLEY, WILLIAM RAYMOND, M.Sc., Ph.D. (Chicago); Instructor in Mathematics, Yale University, New Haven, Conn. *121 Brownell Street.*
1901,	Feb.	LOVE, AUGUSTUS EDWARD HOUGH, M.A., D.Sc. (Oxford); F.R.S.; Honorary Secretary of the London Mathematical Society; Sedleian Professor of Natural Philosophy, Oxford University, Oxford, England. *34 St. Margaret's Road.*
1891,	Apr.	LOVE, JAMES LEE, M.A.; Assistant Professor of Mathematics and Chairman of the Summer School of Arts and Sciences, Harvard University, Cambridge, Mass. *16 University Hall.*
1894,	Oct.	*LOVETT, EDGAR ODELL, M.A., Ph.D. (Virginia, Leipzig); Member of the Société Mathématique de France; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Professor of Astronomy, Princeton University, Princeton, N. J.
1905,	Feb.	LOWBER, JAMES WILLIAM, M.A., Ph.D., D.Sc., LL.D.; F.R.A.S.; Member of the Société Astronomique de France. *113 East 18th Street*, Austin, Texas.
1906,	Feb.	LUBY, WILLIAM A., B.A.; Instructor in Mathematics, Central High School, Kansas City, Mo.
1896,	Nov.	*LUDLOW, HENRY HUNT, Graduate of the U. S. Military Academy; Major, U. S. Artillery. Fort Hamilton, New York, N. Y.
1903,	Feb.	LUNN, ARTHUR C., M.A., Ph.D. (Chicago); Member of the Astronomical and Astrophysical Society of America; Instructor in Applied Mathematics, University of Chicago, Chicago, Ill.
1894,	Oct.	LYMAN, ELMER A., B.A.; Professor of Mathematics and Principal of the Michigan State Normal College, Ypsilanti, Mich. *126 North Washington Street.*
1904,	Sept.	LYMER, JOHN CHARLES, M.A.; Acting Professor of Mathematics, Lawrence University, Appleton, Wis. *497 John Street.*
1904,	Dec.	LYTLE, ERNEST BARNES, B.Sc., M.A. New Haven, Conn. *Box 727, Yale Station.*

Date of Admission.		
1905,	Apr.	McCLENON, RAYMOND BENEDICT, B.A., Ph.D. (Yale); Instructor in Mathematics, Iowa College, Grinnell, Ia. *1305 Broad Street.*
1889,	Dec.	*McCLINTOCK, EMORY, M.A., Ph.D., LL.D.; EX-PRESIDENT; F.I.A.; Member of the Actuarial Society of America; Member of the London Mathematical Society; Vice-President and Actuary of the Mutual Life Insurance Company of New York. *32 Nassau Street,* New York, N. Y.
1903,	Aug.	McCORMACK, THOMAS JOSEPH, LL.B., M.A.; Principal of La Salle-Peru High School, La Salle, Ill.
1902,	Apr.	McDONALD, JOHN HECTOR, B.A., Ph.D. (Chicago); Instructor in Mathematics, University of California, Berkeley, Cal. *2337 Telegraph Avenue.*
1891,	May	McDOUGALL, ALEXANDER HIRAM, B.A.; Principal of the Collegiate Institute, Ottawa, Canada. *286 Kent Street.*
1895,	Nov.	McKINNEY, THOMAS EMERY, M.A., Ph.D. (Chicago); Associate Professor of Mathematics, Wesleyan University, Middletown, Conn. *5 Brainard Avenue.*
1891,	Apr.	McMAHON, JAMES, M.A.; Member of the London Mathematical Society; Professor of Mathematics, Cornell University, Ithaca, N. Y. *7 Central Avenue.*
1906,	Apr.	MACMILLAN, WILLIAM DUNCAN, M.A.; Fellow in Astronomy, University of Chicago, Chicago, Ill. *5407 Woodlawn Avenue.*
1891,	Apr.	McNEILL, MALCOLM, M.A., Ph.D.; Professor of Mathematics and Astronomy, Lake Forest University, Lake Forest, Ill.
1898,	Dec.	*MACAULAY, FRANCIS SOWERBY, M.A., D.Sc. (London); Member of the London Mathematical Society; Associate Editor of the *Mathematical Gazette;* Mathematical Master, St. Paul's School, West Kensington, London, W., England.
1891,	May	MACFARLANE, ALEXANDER, M.A., D.Sc. (Edinburgh), LL.D.; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Lecturer on Mathematical Physics, Lehigh University, South Bethlehem, Pa. *Victoria Avenue, Chatham, Ontario, Canada.*
1897,	Dec.	MACKAY, JOHN STURGEON, M.A., LL.D.; Fellow of the Royal Society of Edinburgh; Honorary Member of the Edinburgh Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung. *69 Northumberland Street,* Edinburgh, Scotland.

Date of Admission.

1905, Feb. MACLAGAN-WEDDERBURN, JOSEPH H., M.A.; Fellow of the Royal Society of Edinburgh; Member of the Edinburgh Mathematical Society; Lecturer on Mathematics, University of Edinburgh, Edinburgh, Scotland. *20 Melville Street.*

1888, Nov. MACLAY, JAMES, C.E., Ph.D. (Columbia); Professor of Mathematics, Columbia University, New York, N. Y.

1897, Jan. MADDISON, ISABEL, B.Sc., Ph.D. (Bryn Mawr); Member of the London Mathematical Society; Assistant to the President and Associate in Mathematics, Bryn Mawr College, Bryn Mawr, Pa.

1897, Aug. MALTBIE, WILLIAM HENRY, M.A., Ph.D. (Johns Hopkins); Professor of Mathematics, The Woman's College, Baltimore, Md.

1900, June MANCHESTER, JAMES EUGENE, B.Sc., D.Sc. (Tübingen); Instructor in Mathematics, University of Minnesota, Minneapolis, Minn.

1891, Nov. MANN, CHARLES RIBORG, M.A., Ph.D. (Berlin); Assistant Professor of Physics, University of Chicago, Chicago, Ill.

1891, Nov. MANNING, HENRY PARKER, B.A., Ph.D. (Johns Hopkins); Member of the Circolo Matematico di Palermo; Associate Professor of Pure Mathematics, Brown University, Providence, R. I.

1903, Oct. MANNING, WILLIAM ALBERT, M.A., Ph.D. (Stanford); Instructor in Applied Mathematics, Stanford University, Cal.

1891, June MARKLEY, JOSEPH LYBRAND, M. A., Ph. D. (Harvard); Junior Professor of Mathematics, University of Michigan, Ann Arbor, Mich. *Geddes and Oxford Road.*

1891, Apr. MARTIN, ARTEMAS, M.A., Ph.D., LL.D; Member of the London Mathematical Society; Member of the Société Mathématique de France; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Member of the Edinburgh Mathematical Society; U. S. Coast and Geodetic Survey, Washington, D. C. *1535 Columbia Street, N. W.*

1899, Dec. MARTIN, EMILIE NORTON, Ph.D. (Bryn Mawr). Montreat, N. C.

1903, Dec. MARTIN, LOUIS ADOLPHE, JR., M.E., M.A.; Assistant Professor of Mathematics and Mechanics, Stevens Institute, Hoboken, N. J. *824 Bloomfield Street.*

Date of Admission.		
1893,	Feb.	MASCHKE, HEINRICH, Ph.D. (Göttingen); Member of the Deutsche Mathematiker-Vereinigung; Associate Professor of Mathematics, University of Chicago, Chicago, Ill.
1903,	Oct.	*MASON, MAX, B.L., Ph.D. (Göttingen); Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Assistant Professor of Mathematics, Sheffield Scientific School, Yale University, New Haven, Conn.
1905,	Dec.	MAXSON, ARTHUR RAY, M.A.; Tutor in Mathematics, Columbia University, New York, N. Y.
1892,	Mar.	MENDIZÁBAL-TAMBORREL, JOAQUIN DE, M.A., D.Sc., Geographical and Military Engineer; Member of the London Mathematical Society; Member of the Société Mathématique de France; Member of the Astronomische Gesellschaft; F.R.A.S.; Captain of Engineer Corps. *Sociedad "Alzate," Palma No. 13,* Mexico, D. F., Mexico.
1903,	Oct.	*MERRILL, HELEN ABBOT, B.A., Ph.D. (Yale); Member of the Deutsche Mathematiker-Vereinigung; Associate Professor of Mathematics, Wellesley College, Wellesley, Mass.
1891,	Apr.	MERRIMAN, MANSFIELD, C.E., Ph.D.; Professor of Civil Engineering, Lehigh University, South Bethlehem, Pa.
1889,	June	MESSENGER, HIRAM JOHN, Lit.B., Ph.D.; Fellow of the Actuarial Society of America; Actuary of the Travelers Insurance Company, Hartford, Conn.
1891,	Oct.	*METZLER, WILLIAM H., B.A., Ph.D. (Clark); Fellow of the Royal Society of Edinburgh; Corresponding Fellow of the Royal Society of Canada; Member of the London Mathematical Society; Member of the Société Mathématique de France; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Francis H. Root Professor of Mathematics, Syracuse University, Syracuse, N. Y.
1891,	May	MILLER, EPHRAIM, M.A., Ph.D.; Member of the Astronomical and Astrophysical Society of America; Professor of Mathematics and Astronomy, University of Kansas, Lawrence, Kan. *1244 Tennessee Street.*
1903,	Oct.	MILLER, ERNEST ALLEN, B.Sc., M.A.; Instructor in Mathematics, Massachusetts Institute of Technology, Boston, Mass. *133 Salisbury Road,* Brookline, Mass.

Date of Admission.

1898, Apr. *MILLER, GEORGE A., Ph.D.; Member of the London Mathematical Society; Member of the Société Mathématique de France; Member of the Deutsche Mathematiker-Vereinigung; Associate Professor of Mathematics, University of Illinois, Urbana, Ill. *907 West Nevada Street.*

1899, Oct. MILLER, JOHN ANTHONY, M.A., Ph.D. (Chicago); Member of the Astronomical and Astrophysical Society of America; Professor of Mechanics and Astronomy, University of Indiana, Bloomington, Ind. *Escondite.*

1906, Feb. MILNE, WILLIAM J., M.A., Ph.D., LL.D.; President of the New York State Normal College, Albany, N. Y. *5 Elk Street.*

1900, Dec. MITCHELL, HENRY BEDINGER, E.E., M.A.; Adjunct Professor of Mathematics, Columbia University, New York, N. Y. *The Benedick, 80 Washington Square East.*

1904, Sept. MONCREIFF, WILLIAM FRANKLIN, SR., M.A., Ph.D. (Chicago); Professor of Mathematical Physics and Astronomy, Winthrop Normal and Industrial College, Rock Hill, S. C.

1905, Apr. MONROE, WALTER SCOTT, B.A.; Principal of the Vandalia High School, Vandalia, Mo.

1891, May MOODY, WILLIAM ALBION, M.A.; Professor of Mathematics, Bowdoin College, Brunswick, Me. *60 Federal Street.*

1903, Feb. MOORE, CLARENCE LEMUEL ELISHA, B.Sc., M.A., Ph.D. (Cornell); Member of the Circolo Matematico di Palermo; Instructor in Mathematics, Massachusetts Institute of Technology, Boston, Mass.

1891, May *MOORE, ELIAKIM HASTINGS, B.A., Ph.D. (Yale; Göttingen, honorary), LL.D.; EX-PRESIDENT; Member of the National Academy of Sciences; Member of the London Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Editor of the *Transactions of the American Mathematical Society;* Professor and Head of the Department of Mathematics, University of Chicago, Chicago, Ill. *5607 Monroe Avenue.*

1906, Oct. MOORE, ROBERT LEE, B.Sc., M.A., Ph.D. (Chicago); Instructor in Mathematics, Princeton University, Princeton, N. J.

Date of Admission.

1905, Apr. | MOREHEAD, JAMES CADDALL, M.A., M.Sc., Ph.D. (Yale); Instructor in Mathematics, Northwestern University, Evanston, Ill. *725 Emerson Street.*

1902, Apr. | MORENO, HALCOTT C., M.A., Ph.D. (Clark); Assistant Professor of Applied Mathematics, Stanford University, Palo Alto, Cal. *P. O. Box 92.*

1904, Dec. | MORITZ, ROBERT EDOUARD, B.Sc., Ph.D. (Strassburg); Professor of Mathematics, University of Washington, Seattle, Wash.

1891, May | MORLEY, FRANK, M.A., Sc.D. (Cambridge); Member of the London Mathematical Society; Editor of the *Bulletin of the American Mathematical Society;* Editor of the *American Journal of Mathematics;* Professor of Mathematics, Johns Hopkins University, Baltimore, Md.

1906, Feb. | MORRIS, RICHARD, B.Sc., M.Sc.; Associate Professor of Mathematics and Graphics, Rutgers College, New Brunswick, N. J. *28 Morris Street.*

1904, Apr. | MORRISON, FRANK MARION, B.A.; Assistant Professor of Mathematics, University of Washington, Seattle, Wash. *4719 15th Avenue, N. E.*

1906, Sept. | MORROW, EMERSON BOYD, M.A.; Instructor in Mathematics, The Country School for Boys, Baltimore, Md.

1900, Feb. | MOULTON, FOREST RAY, B.A., Ph.D. (Chicago); F.R.A.S.; Member of the Circolo Matematico di Palermo; Member of the Astronomical and Astrophysical Society of America; Associate Editor of the *Journal of Geography;* Assistant Professor of Astronomy, University of Chicago, Chicago, Ill.

1900, Dec. | *MUKHOPÂDHYÁY, ASUTOSH, M.A., LL.D.; Member of the Société Mathématique de France; Member of the Edinburgh Mathematical Society; Member of the Circolo Matematico di Palermo; F.R.A.S.; Examiner in Mathematics and Member of the Syndicate, University of Calcutta; Professor of Mathematics at the Indian Association for the Cultivation of Science. *77 Russa Road North,* Bhowanipore, Calcutta, India.

1898, Oct. | MULLEN, LORING BLANCHARD, Ph.D.; Instructor in Mathematics, Girls' High School, Brooklyn, N. Y.

1890, Dec. | MURRAY, DANIEL ALEXANDER, B.A., Ph.D. (Johns Hopkins); Professor of Mathematics, Dalhousie College, Halifax, Nova Scotia, Canada.

Date of Admission.

1904, Apr. MYERS, GEORGE WILLIAM, M.L., Ph.D. (Munich); Member of the Astronomische Gesellschaft; Member of the Astronomical and Astrophysical Society of America; Professor of the Teaching of Mathematics and Astronomy, University of Chicago, Chicago, Ill. *480 East 72d Street (Bryn Mawr).*

1903, Aug. NEIKIRK, LEWIS IRVING, M.Sc., Ph.D. (Pennsylvania); Instructor in Mathematics, University of Illinois, Champaign, Ill. *602 John Street.*

1891, June NELSON, ALFRED BRIERLEY, M.A., M.D.; Professor of Mathematics, Centre College, Danville, Ky. *443 West Lexington Avenue.*

1895, Dec. NEUFELD, JULIUS L., E.E.; Professor of Mathematics, Central High School, Philadelphia, Pa. *311 South Hicks Street.*

1891, Nov. NEWCOMB, SIMON, D.Sc., Ph.D., LL.D., D.C.L.; EX-PRESIDENT; Member of the National Academy of Sciences; Foreign Member of the Royal Society of London; Foreign Associate of the Institute of France; Foreign Associate of the Royal Astronomical Society; President of the Astronomical and Astrophysical Society of America; Co-editor of the *American Journal of Mathematics;* Emeritus Professor of Mathematics and Astronomy, Johns Hopkins University; Professor of Mathematics, U. S. Navy, retired. *1620 P Street,* Washington, D. C.

1904, Dec. NEWKIRK, BURT LEROY, M.A., Ph.D. (Munich); Member of the Astronomische Gesellschaft; Member of the Deutsche Mathematiker-Vereinigung; Coeditor of the *Publications of the Astronomical Society of the Pacific;* Assistant in the Lick Observatory, Mount Hamilton, Calif.

1906, Feb. NEWLIN, WILLIAM J., B.Sc., M.E., M.A.; Associate Professor of Mathematics and Philosophy, Amherst College, Amherst, Mass.

1895, Oct. NEWSON, HENRY BYRON, M.A., Ph.D.; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Editor of the *Kansas University Science Bulletin;* Professor of Mathematics, University of Kansas, Lawrence, Kan.

1897, Jan. NEWSON, MARY WINSTON, B.A., Ph.D. (Göttingen). *1702 Massachusetts Street,* Lawrence, Kan.

Date of Admission.		
1899,	Aug.	NICHOLS, THOMAS FLINT, B.A., Ph.D. (Clark); Professor of Applied Mathematics, Hamilton College, Clinton, N. Y.
1899,	Dec.	NOBLE, CHARLES ALBERT, B.Sc., Ph.D. (Göttingen); Assistant Professor of Mathematics, University of California, Berkeley, Cal. *2731 Durant Avenue.*
1906,	Sept.	OBEAR, GEORGE BARROWS, M.Sc.; Assistant in Mathematics, Brown University, Providence, R. I.
1891,	Dec.	OLDS, GEORGE DANIEL, M.A.; Professor of Mathematics, Amherst College, Amherst, Mass.
1905,	Oct.	OLSON, HENRY NATHANIEL, B.A.; Instructor in Mathematics, Bethany College, Lindsborg, Kan. *P. O. Box 288.*
1891,	Apr.	OSBORNE, GEORGE ABBOTT, B.Sc.; Walker Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass.
1895,	Feb.	OSGOOD, WILLIAM FOGG, M.A., Ph.D. (Erlangen); EX-PRESIDENT; Member of the National Academy of Sciences; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Professor of Mathematics, Harvard University, Cambridge, Mass. *74 Avon Hill Street.*
1906,	Apr.	OWENS, FREDERICK W., M.Sc.; Instructor in Mathematics, Evanston Academy, Evanston, Ill. *822 Foster Street.*
1900,	Dec.	PAGE, JAMES MORRIS, M.A., Ph.D. (Leipzig); Professor of Mathematics and Dean of the Academic Faculty, University of Virginia, Charlottesville, Va.
1897,	May	PALMIÉ, ANNA HELENE, B.Ph.; Professor of Mathematics, College for Women, Western Reserve University, Cleveland, O. *2733 Euclid Avenue.*
1894,	Mar.	*PARTRIDGE, EDWARD ANSON, B.Sc., M.A., Ph.D.; Professor of Physics, Central Manual Training School, Philadelphia, Pa. *17th and Wood Streets.*
1896,	Dec.	PATTERSON, JAMES LAWSON, B.Ph., D.Sc. (Princeton); Head Master of Chestnut Hill Academy, Chestnut Hill, Philadelphia, Pa.
1906,	Sept.	PEDERSEN, FREDERICK MALLING, D.Sc.; Instructor in Mathematics, College of the City of New York, New York, N. Y. *452 West 144th Street.*

Date of Admission.		
1891,	May	PEIRCE, BENJAMIN OSGOOD, Ph.D. (Leipzig); Member of the National Academy of Sciences; Hollis Professor of Mathematics and Natural Philosophy, Harvard University, Cambridge, Mass. *The Jefferson Physical Laboratory.*
1898,	Oct.	PELL, ALEXANDER, Ph.D. (Johns Hopkins); Professor of Mathematics, University of South Dakota, Vermillion, S. D.
1906,	Feb.	PESTA, ROSE ALICE, M.L.; Instructor in Mathematics, Chicago Normal School, Chicago, Ill. *6018 Monroe Avenue.*
1893,	Oct.	PETTEGREW, DAVID LYMAN, Member of the Circolo Matematico di Palermo. *P. O. Box 75,* Worcester, Mass.
1892,	Oct.	PFISTER, JOSEPH CLEMENT, M.A.; Adjunct Professor of Mechanics, Columbia University, New York, N. Y.
1896,	Nov.	PHILLIPS, ANDREW WHEELER, M.A., Ph.D. (Yale); Professor of Mathematics and Dean of the Graduate School, Yale University, New Haven, Conn. *209 York Street.*
1906,	Feb.	PHILLIPS, HENRY BAYARD, B.Sc., Ph.D. (Johns Hopkins); Instructor in Applied Mathematics, University of Cincinnati, Cincinnati, Ohio. *Auburn Hotel.*
1903,	Aug.	PIERCE, ARCHIE BURTON, B.Sc., M.A., Ph.D. (Zurich); Member of the Deutsche Mathematiker-Vereinigung; Instructor in Mathematics, University of Michigan, Ann Arbor, Mich. *732 Packard Street.*
1894,	Oct.	PIERPONT, JAMES, Ph.D. (Vienna); Member of the Société Mathématique de France; Member of the London Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, Yale University, New Haven, Conn. *42 Mansfield Street.*
1889,	Dec.	PIERSON, ISRAEL CORIELL, M.A., Ph.D.; Member of the Actuarial Society of America; Consulting Actuary. *141 Broadway,* New York, N. Y.
1905,	Feb.	PLIMPTON, GEORGE ARTHUR, B.A.; Trustee of Amherst College; Treasurer of Barnard College. Ginn and Company, *70 Fifth Avenue,* New York, N. Y.
1905,	Feb.	PONZER, ERNEST WILLIAM, M.Sc.; Instructor in Mathematics, University of Illinois, Champaign, Ill. *708 South Fourth Street.*

Date of Admission.

1890, Dec. POOR, CHARLES LANE, Ph.D. (Johns Hopkins); Member of the Astronomische Gesellschaft; F.R.A.S.; Editor of the *Annals of the New York Academy of Sciences;* Professor of Astronomy, Columbia University, New York, N. Y. *4 East 48th Street.*

1905, Sept. POOR, JOHN MERRELL, B.A., Ph.D (Princeton); Member of the Astronomical and Astrophysical Society of America; Assistant Professor of Astronomy, Dartmouth College, Hanover, N. H.

1897, Feb. PORTER, MILTON BROCKETT, B.Sc., M.A., Ph.D. (Harvard); Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, University of Texas, Austin, Texas. *1908 University Avenue.*

1892, May PRENTISS, ROBERT WOODWORTH, M.Sc.; Professor of Mathematics and Astronomy, Rutgers College, New Brunswick, N. J. *Benner Street, Highland Park.*

1889, Dec. *PUPIN, MICHAEL IDVORSKY, B.A., Ph.D. (Berlin); Professor of Electro-Mechanics, Columbia University, New York, N. Y.

1891, June PURYEAR, CHARLES, B.Sc., M.A., C.E.; Professor of Mathematics, Agricultural and Mechanical College of Texas, College Station, Texas.

1902, Apr. PUTNAM, THOMAS MILTON, M.Sc., Ph.D. (Chicago); Instructor in Mathematics, University of California, Berkeley, Cal.

1906, Apr. QUINN, JOHN JAMES, Ph.D.; Supervisor of Manual Training, Scottdale, Pa.

1903, Dec. RAGSDALE, VIRGINIA, B.A., Ph.D. (Bryn Mawr). Jamestown, N. C.

1894, Mar. RAND, JOHN HOLMES, M.A.; Professor of Mathematics, Bates College, Lewiston, Me. *28 Frye Street.*

1904, Oct. RANUM, ARTHUR, Ph.D.; Instructor in Mathematics, Cornell University, Ithaca, N. Y. *206 Eddy Street.*

1903, Dec. RASOR, S. EUGENE, M.A., M.Sc.; Assistant Professor of Mathematics, Ohio State University, Columbus, Ohio.

1891, Dec. RAYSON, AMY, M.A.; Joint Principal of School for Girls, New York, N. Y. *168 West 75th Street.*

1905, Feb. *REDDICK, HARRY WILFRED, M.A.; Livingston Hall, Columbia University, New York, N. Y.

1900, Apr. REID, LEGH WILBER, B.A., M.Sc., Ph.D. (Göttingen); Associate Professor of Mathematics, Haverford College, Haverford, Pa.

Date of Admission.

1903, Feb. REYNOLDS, FREDERICK GREGORY, LL.B., Sc.D.; Assistant Professor of Mathematics, College of the City of New York, New York, N. Y. *17 Lexington Avenue.*

1893, Apr. RICE, CHARLES MOEN, B.A. *P. O. Box 215,* Worcester, Mass.

1905, Apr. RICHARDSON, R. G. D., B.A., Ph.D. (Yale); Member of the Deutsche Mathematiker-Vereinigung; Instructor in Mathematics, Yale University, New Haven, Conn. *120 York Street.*

1905, Apr. RICHARDSON, SOPHIA FOSTER, B.A.; Instructor in Mathematics, Vassar College, Poughkeepsie, N. Y.

1899, Aug. *RICHMOND, HERBERT WILLIAM, M.A.; Fellow of the Cambridge Philosophical Society; Member of the London Mathematical Society; Fellow and Lecturer of King's College, and University Lecturer, Cambridge University, Cambridge, England.

1902, Oct. RIETZ, HENRY LEWIS, B.Sc., Ph.D. (Cornell); Assistant Professor of Mathematics, University of Illinois, Urbana, Ill. *918 West Oregon Street.*

1903, Apr. RIGGS, NORMAN C., M.Sc.; Associate Professor of Mathematics, Armour Institute of Technology, Chicago, Ill.

1906, Apr. RISLEY, WALTER JOHN, B.Sc.; Assistant in Mathematics, University of Illinois, Champaign, Ill. *15 East Healy Street.*

1891, May ROCKWOOD, CHARLES GREENE, JR., M.A., Ph.D. (Yale); Emeritus Professor of Mathematics, Princeton University, Princeton, N. J. *34 Bayard Lane.*

1896, Apr. ROE, EDWARD DRAKE, JR., M.A., Ph.D. (Erlangen); Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; John Raymond French Professor of Mathematics, Syracuse University, Syracuse, N. Y. *105 Ostrander Avenue.*

1902, Apr. ROEVER, WILLIAM HENRY, B.Sc., Ph.D. (Harvard); Instructor in Mathematics, Massachusetts Institute of Technology, Boston, Mass. *44 Martin Street,* Cambridge, Mass.

1906, Sept. ROSS, GEORGE ALBERT, M.A.; Vice-President and Professor of Mathematics, Hardin College, Mexico, Mo.

1897, Feb. ROTHROCK, DAVID ANDREW, M.A., Ph.D. (Leipzig); Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Junior Professor of Mathematics, University of Indiana, Bloomington, Ind.

Date of Admission.		
1904,	Feb.	RUNNING, THEODORE RUDOLPH, M.Sc., Ph.D. (Wisconsin); Instructor in Mathematics, University of Michigan, Ann Arbor, Mich. *1108 Prospect Street.*
1903,	Aug.	RUSK, WILLIAM JAMES, M.A.; Professor of Mathematics, Iowa College, Grinnell, Ia. *1022 Park Street.*
1906,	Oct.	RUSSELL, WILLIAM POLK, B.A.; Instructor in Mathematics, Pomona College, Claremont, Calif.
1898,	Aug.	SAFFORD, FREDERICK HOLLISTER, M.A., Ph.D. (Harvard); Instructor in Mathematics, University of Pennsylvania, Philadelphia, Pa. *College Hall.*
1897,	Dec.	SAUREL, PAUL LOUIS, D.Sc. (Bordeaux); Associate Professor of Mathematics, College of the City of New York, New York, N. Y.
1891,	Nov.	SAYRE, HERBERT ARMISTEAD, B.E., Ph.D. (Johns Hopkins); Professor of Physics, University of Alabama, University, Ala.
1906,	Oct.	SCARBOROUGH, JAMES HARRIS, M.Sc., M.A.; Professor of Mathematics, Missouri State Normal School, Warrensburg, Mo.
1892,	Feb.	*SCHMIEDEL, OSCAR, B.Sc., M.A.; Professor of Mathematics, Bellevue College, Bellevue, Neb.
1900,	Oct.	SCHOTTENFELS, IDA MAY, M.A. *1230 Amsterdam Avenue,* New York, N. Y.
1892,	Apr.	SCHULTZE, ARTHUR, Ph.D.; Assistant Professor of Mathematics, New York University; Head of the Mathematical Department, High School of Commerce, New York, N. Y.
1893,	Oct.	SCHWATT, ISAAC J., Ph.D.; Member of the Deutsche Mathematiker-Vereinigung; Assistant Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa.
1906,	Feb.	SCHWEITZER, ARTHUR RICHARDS, Ph.B., M.Sc. *1906 Oakdale Avenue,* Chicago, Ill.
1891,	May	SCOTT, CHARLOTTE ANGAS, D.Sc. (London); Member of the London Mathematical Society; Member of the Edinburgh Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Honorary Member of the Amsterdam Mathematical Society; Co-Editor of the *American Journal of Mathematics;* Professor of Mathematics, Bryn Mawr College, Bryn Mawr, Pa.

Date of Admission.		
1902,	Oct.	SCOTT, GEORGE HARVEY, M.A.; Professor of Mathematics and Astronomy and Principal of the Academy, Yankton College, Yankton, S. D.
1889,	June	SEARLE, REV. GEORGE MARY, M.A., Ph.D.; Superior General of Paulist Fathers, Catholic University, Washington, D. C.
1895,	Aug.	SEE, THOMAS JEFFERSON JACKSON, M.A., Ph.D. (Berlin); Member of the Astronomische Gesellschaft; F.R.A.S.; Member of the London Mathematical Society; Member of the Société Mathématique de France; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Member of the American Philosophical Society; Professor of Mathematics, U. S. Navy, Mare Island, Cal. *Naval Observatory.*
1902,	Feb.	SÉGUIER, JEAN ARMAND MARIE JOSEPH DE, D.Sc.; Member of the Société Mathématique de France. *56 Rue des Saints Pères,* Paris, France.
1899,	Aug.	SELLEW, GEORGE TUCKER, M.A., Ph.D.; Professor of Mathematics, Knox College, Galesburg, Ill.
1892,	June	SHACK, FERDINAND, B.Sc., M.A., LL.B. *52 Wall Street,* New York, N. Y.
1905,	Apr.	SHARPE, FRANCIS ROBERT, B.A.; Instructor in Mathematics, Cornell University, Ithaca, N. Y. *213 Mitchell Street.*
1891,	Apr.	SHATTUCK, SAMUEL WALKER, B.Sc., M.A., C.E.; Professor of Mathematics, University of Illinois, Champaign, Ill.
1894,	Mar.	SHAW, JAMES BYRNIE, M.Sc., D.Sc., Member of the Circolo Matematico di Palermo; Professor of Mathematics, James Millikin University, Decatur, Ill. *1258 West Macon Street.*
1906,	Dec.	SHEPARD, ELMER I., M.A.; Instructor in Mathematics, Harvard University, Cambridge, Mass. *1 Trowbridge Terrace.*
1906,	Sept.	SHORT, ROBERT L., B.A.; Mathematical Editor of D. C. Heath and Company, Chicago, Illinois. *378 Wabash Avenue.*
1906,	Oct.	SICELOFF, LEWIS PARKER, B.A.; Tutor in Mathematics, Columbia University, New York, N. Y.
1906,	Feb.	SIMPSON, CHARLES GAMBLE, B.Ph., M.A.; Instructor in Mathematics, State University of Iowa, Iowa City, Ia. *309 East Church Street.*

Date of Admission.		
1905,	Feb.	SINCLAIR, MARY EMILY, M.A.; Instructor in Mathematics, University of Nebraska, Lincoln, Neb.
1904,	Oct.	SISAM, CHARLES HERSCHEL, Ph.D. (Cornell); Member of the Deutsche Mathematiker-Vereinigung; Instructor in Mathematics, University of Illinois, Urbana, Ill. *609 South Busey Avenue.*
1899,	Aug.	SKINNER, ERNEST BROWN, B.A., Ph.D. (Chicago); Assistant Professor of Mathematics, University of Wisconsin, Madison, Wis. *210 Lathrop Street.*
1899,	Oct.	SLAUGHT, HERBERT ELLSWORTH, M.A., Ph.D. (Chicago); Editor of the *American Mathematical Monthly;* Assistant Professor of Mathematics, University of Chicago, Chicago, Ill. *58th Street and Ellis Avenue.*
1891,	May	*SLICHTER, CHARLES S., M.Sc.; Consulting Engineer, U. S. Reclamation Service; Professor of Applied Mathematics, University of Wisconsin, Madison, Wis. *636 Francis Street.*
1901,	Apr.	SLOCUM, STEPHEN ELMER, B.E., Ph.D. (Clark); Professor of Applied Mathematics, University of Cincinnati, Cincinnati, Ohio.
1904,	Oct.	SMITH, ADELAIDE; Lecturer on Mathematics, Huguenot College, Wellington, Cape Colony, S. A. *5123 Indiana Avenue, Chicago, Ill.*
1905,	Feb.	SMITH, ARTHUR WHIPPLE, M.Sc., Ph.D. (Chicago); Instructor in Mathematics, Colgate University, Hamilton, N. Y.
1904,	Sept.	SMITH, CLARA ELIZA, B.A., Ph.D. (Yale). Northford, Conn. *445 George Street, New Haven, Conn.*
1893,	Oct.	SMITH, DAVID EUGENE, M.Ph., Ph.D., LL.D.; Member of the Deutsche Mathematiker-Vereinigung; Editor of the *Bulletin of the American Mathematical Society;* Professor of Mathematics, Teachers College, Columbia University, New York, N. Y.
1898,	Apr.	SMITH, EUGENE RANDOLPH, M.A.; Instructor in Mathematics, Montclair High School, Montclair, N. J. *36 Park Street.*
1905,	Oct.	SMITH, FRANKLIN HANS, M.A.; Instructor in Mathematics, Morgan Park Academy, Morgan Park, Ill. *48 East Hall.*
1891,	Nov.	SMITH, PERCEY FRANKLYN, Ph.D.; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, Sheffield Scientific School, Yale University, New Haven, Conn. *330 Willow Street.*

Date of Admission.		
1891,	Apr.	SMITH, WILLIAM BENJAMIN, M.A., Ph.D. (Göttingen); Professor of Mathematics, Tulane University, New Orleans, La.
1904,	Oct.	SNELLING, CHARLES MERCER, Graduate of the Virginia Military Institute, M.A.; Junior Professor of Mathematics, University of Georgia, Athens, Ga. *P. O. Box 361.*
1889,	Dec.	SNOOK, THOMAS EDWARD, M.E.; Architect and Engineer. *73 Nassau Street,* New York, N. Y.
1895,	Apr.	SNYDER, MONROE BENJAMIN, M.A.; Member of the Astronomische Gesellschaft; F.R.A.S.; Professor of Astronomy and Applied Mathematics and Head of the Department of Mathematics, Central High School, Philadelphia, Pa.; Director of the Philadelphia Observatory. *2402 North Broad Street.*
1896,	Nov.	SNYDER, VIRGIL, M.A., Ph.D. (Göttingen); Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Editor of the *Bulletin of the American Mathematical Society;* Assistant Professor of Mathematics, Cornell University, Ithaca, N. Y. *214 University Avenue.*
1892,	May	SQUIER, GEORGE OWEN, Ph.D. (Johns Hopkins); Major, Signal Corps, U. S. Army. Fort Leavenworth, Kans.
1888,	Nov.	STABLER, EDWARD LINCOLN, M.A., Ph.D. (Columbia); U. S. Leather Co., *26 Ferry Street,* New York, N. Y.
1906,	Feb.	STAMPER, ALVA WALKER, B.Sc., M.A., Ph.D. (Columbia); Head of the Department of Mathematics, State Normal School, Chico, Cal. *P. O. Box 596.*
1894,	Nov.	*STECKER, HENRY FREEMAN, M.Sc., Ph.D.; Member of the Deutsche Mathematiker-Vereinigung; Assistant Professor of Mathematics, Pennsylvania State College, State College, Pa. *Lock Box 305.*
1891,	Jan.	STEINMETZ, CHARLES PROTEUS, Ph.D; Consulting Engineer of the General Electric Company; Professor of Electrical Engineering, Union University, Schenectady, N. Y.
1906,	Oct.	STÉPHANOS, CYPARISSOS, Ph.D. (Athens), D.Sc. (Paris); Member of the Société Mathématique de France; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Professor of Mathematics, University of Athens, Athens, Greece. *20 Rue de Salon.*

Date of Admission.		
1906,	Apr.	STEPHENS, ROSWELL POWELL, B.A., Ph.D. (Johns Hopkins); Instructor in Mathematics, Wesleyan University, Middletown, Conn.
1891,	June	ST. JOHN, HOWELL WILLIAMS, Ph.B.; Member of the Actuarial Society of America; Corresponding Member of the Institut des Actuaires Français; Member of the American Statistical Association; Actuary of the Ætna Life Insurance Company, Hartford, Conn. *P. O. Box 913.*
1891,	May	STONE, ORMOND, M.A.; Editor of the *Annals of Mathematics;* Director of the Leander McCormick Observatory and Professor of Practical Astronomy, University of Virginia, Charlottesville, Va.
1897,	Feb.	STORY, WILLIAM EDWARD, B.A., Ph.D. (Leipzig); Member of the London Mathematical Society; Professor of Mathematics, Clark University, Worcester, Mass.
1902,	Apr.	STRINGHAM, IRVING, B.A., Ph.D. (Johns Hopkins); Professor of Mathematics and Dean of the College of Social Sciences, University of California, Berkeley, Cal. *The Owl's Nest, Prospect Avenue.*
1903,	Feb.	STROMQUIST, CARL EBEN, B.Sc., Ph.D. (Yale); Instructor in Mathematics, John C. Green School of Science, Princeton University, Princeton, N. J.
1895,	Dec.	STRONG, WENDELL MELVILLE, LL.B., M.A., Ph.D. (Yale); Fellow of the Actuarial Society of America; Assistant Actuary of the Mutual Life Insurance Company of New York. *32 Nassau Street, New York, N. Y.*
1904,	Oct.	STUDY, EDUARD, Ph.D.; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, University of Bonn, Bonn, Germany. *Goebenstrasse 28.*
1906,	Apr.	SUTER, JESSE DWIGHT, B.A. *The Marburg,* Madison, Wis.
1903,	Apr.	SWARTZEL, KARL DALE, M.Sc.; Associate Professor of Mathematics, Ohio State University, Columbus, Ohio. *308 West Eighth Avenue.*
1904,	Apr.	SWIFT, ELIJAH, M.A. *Maschmühlenweg 6, Göttingen, Germany.*
1891,	May	*TABER, HENRY, B.Ph., Ph.D. (Johns Hopkins); Member of the London Mathematical Society; Professor of Mathematics, Clark University, Worcester, Mass.
1900,	Dec.	TALIAFERRO, THOMAS HARDY, C.E., Ph.D. (Johns Hopkins). *1003 McCulloch Street,* Baltimore, Md.

Date of Admission.		
1901,	Oct.	TALLMAN, WILLIAM DUANE, B.Sc.; Professor of Mathematics, Montana State College of Agriculture and Mechanic Arts, Bozeman, Mon. *726 Third Avenue South.*
1896,	Nov.	*TANNER, JOHN HENRY, B.Sc., Ph.D.; Professor of Mathematics, Cornell University, Ithaca, N. Y. *Cornell Heights.*
1903,	Oct.	TAYLOR, EDSON HOMER, B.Sc., M.A.; Teacher of Mathematics, Eastern Illinois State Normal School, Charleston, Ill.
1891,	Apr.	TAYLOR, JAMES MORFORD, M.A., LL.D.; Professor of Mathematics, Colgate University, Hamilton, N. Y.
1903,	Feb.	TAYLOR, WILLIAM ERASTUS, M.Ph.; Ph.D. (Syracuse); Professor of Applied Mathematics, College of Applied Science, Syracuse University, Syracuse, N. Y. *822 Irving Avenue.*
1899,	Oct.	THOMPSON, EDWARD PAYSON, M.A. *142 Linden Street.* Riverside, Cal.
1891,	Apr.	*THOMPSON, HENRY DALLAS, M.A., D.Sc., Ph.D.; Professor of Mathematics, Princeton University, Princeton, N. J. *11 Morven Street.*
1897,	Jan.	THORNBURG, CHARLES LEWIS, B.Sc., C.E., Ph.D.; Professor of Mathematics and Astronomy, Lehigh University, South Bethlehem, Pa. *308 Packer Avenue.*
1901,	Oct.	TORY, HENRY M., M.A., D.Sc., LL.D.; Associate Professor of Mathematics, McGill University, Montreal, Canada.
1906,	Feb.	TOUTON, FRANK C., B.Ph.; Teacher of Mathematics, Central High School, Kansas City, Mo.
1902,	Apr.	TOWNLEY, SIDNEY DEAN, M.Sc., Sc.D. (Michigan); Editor of the *Publications of the Astronomical Society of the Pacific;* Lecturer in Astronomy, University of California; Astronomer in charge of the International Latitude Observatory, Ukiah, Cal.
1895,	Nov.	TOWNSEND, EDGAR JEROME, M.A., Ph.D. (Göttingen); Professor of Mathematics and Dean of the College of Science, University of Illinois, Champaign, Ill. *510 John Street.*
1905,	Dec.	TRAVIS, JOHN FRANCIS, M.A.; Member of the Circolo Matematico di Palermo; Professor and Head of the Department of Mathematics, The Temple College, Philadelphia, Pa.

Date of Admission.		
1906,	Sept.	TRIER, BETTY, M.A.; Teacher of Algebra and Sciences, Townsend's School, Newark, N. J. *106 South Fullerton Avenue, Montclair, N. J.*
1906,	Feb.	TRIPP, MYRON OWEN, B.Sc., B.A.; Tutor in Mathematics, College of the City of New York, New York, N. Y. *Lincoln Park,* Yonkers, N. Y.
1903,	Aug.	TRUEBLOOD, MARY ESTHER, M.Ph.; Instructor in Mathematics, Mount Holyoke College, South Hadley, Mass. *6 Maple Street, Springfield, Mass.*
1894,	Aug.	TYLER, HARRY WALTER, B.Sc., Ph.D. (Erlangen); Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics. Massachusetts Institute of Technology, Boston, Mass.
1897,	Dec.	UNDERHILL, MARY, M.Sc. *132½ East 19th Street,* New York, N. Y.
1903,	Aug.	UPTON, CLIFFORD BREWSTER, B.A.; Assistant in Mathematics, Teachers College, Columbia University; Instructor in Mathematics, Horace Mann High School, New York, N. Y.
1888,	Nov.	VAN AMRINGE, J. HOWARD, M.A., Ph.D. L.H.D., LL.D.; EX-PRESIDENT; Professor of Mathematics and Dean of Columbia College, Columbia University, New York, N. Y. *48 East 26th Street.*
1903,	Oct.	VAN BENSCHOTEN, ANNA LAVINIA, M.Sc.; Professor of Mathematics, Wells College, Aurora, N. Y. *111 Oak Avenue,* Ithaca, N. Y.
1902,	Feb.	VAN DER HEYDEN, ALEXANDER FREDERICK, M.A.; Member of the Mathematical Association; Mathematical Master, Middlesbrough High School, Middlesbrough, England. *3 St. John's Terrace.*
1903,	Feb.	VAN ORSTRAND, CHARLES EDWIN, M.Sc.; U. S. Geological Survey, Washington, D. C.
1893,	Apr.	VAN VLECK, EDWARD BURR, M.A., Ph.D. (Göttingen); Member of the Société Mathématique de France; Member of the Deutsche Mathematiker-Vereinigung; Editor of the *Transactions of the American Mathematical Society;* Professor of Mathematics, University of Wisconsin, Madison, Wis.
1891,	Apr.	VAN VLECK, JOHN MONROE, M.A., LL.D.; Member of the Astronomische Gesellschaft; Emeritus Professor of Mathematics and Astronomy, Wesleyan University, Middletown, Conn.

Date of Admission.		
1900,	June	VAUGHN, WILLIAM JAMES, M.A., LL.D.; Professor of Mathematics and Astronomy, Vanderbilt University, Nashville, Tenn.
1903,	Aug.	*VEBLEN, OSWALD, B.A., Ph.D. (Chicago); Member of the Circolo Matematico di Palermo; Assistant Professor of Mathematics, Princeton University, Princeton, N. J. *23 Madison Street.*
1900,	Dec.	VIVIAN, ROXANA HAYWARD, B.A., Ph.D. (Pennsylvania); Instructor in Mathematics, Wellesley College, Wellesley, Mass. *106 Gordon Avenue, Hyde Park, Mass.*
1905,	Dec.	VOLTERRA, VITO, Phys.D. (Pisa), Math.D. (Christiania), Sc.D. (Cambridge); Senator of the Kingdom of Italy; Member of the Italian Society of Sciences; Member of the Reale Accademia dei Lincei; Member of the Reale Accademia delle Scienze di Torino; Corresponding Member of the Institut de France; Corresponding Member of the Königliche Gesellschaft der Wissenschaften zu Göttingen; Corresponding Member of the Reale Istituto Lombardo di Scienze e Lettere; Corresponding Member of the Reale Accademia delle Scienze dell' Istituto di Bologna; Corresponding Member of the Reale Accademia delle Scienze, Lettere ed Arti di Modena; Member of the Bureau de la Société Mathématique de France; Member of the Deutsche Mathematiker-Vereinigung; Member of the Directive Council of the Circolo Matematico di Palermo; Professor of Mathematical Physics and Celestial Mechanics, University of Rome, Rome, Italy. *Via in Lucina, 17.*
1905,	Dec.	WADDELL, MARY EVELYN GERTRUDE, M.A. Orono, Ontario, Canada.
1891,	Oct.	WAIT, LUCIEN AUGUSTUS, B.A.; Professor of Mathematics, Cornell, University, Ithaca, N. Y. *Rockledge.*
1891,	Apr.	WALDO, CLARENCE ABIATHAR, M.A., Ph.D.; Head Professor of Mathematics, Purdue University, Lafayette, Ind. *806 South Street.*
1898,	Dec.	WALKER, BUZZ M., M.Sc., Ph.D.; Professor of Mathematics and Director of the School of Engineering, Mississippi Agricultural and Mechanical College, Agricultural College, Miss.
1894,	Feb.	WALKER, LON CAIN, M.A. *P. O. Box 158,* Berkeley, California.

Date of Admission.		
1905,	Apr.	WALKER, MARY SHORE, M.A.: Assistant in Mathematics, University of Missouri, Columbia, Mo. *1113 University Avenue.*
1898,	Apr.	WASHBURNE, ALVA COURTENAY, Member of the Actuarial Society of America; Actuary of the Hartford Life Insurance Company, Hartford, Conn.
1902,	Apr.	WEBB, HARRISON EMMETT, B.A.; Instructor in Mathematics and Science, Stevens School, Hoboken, N. J. *8 Irving Place, Summit, N. J.*
1891,	Oct.	WEBB, JOHN BURKITT, C.E.; Professor of Mathematics and Mechanics, Stevens Institute of Technology, Hoboken, N. J. *Hoboken, N. J.*
1891,	May	WEBSTER, ARTHUR GORDON, B.A., Ph.D. (Berlin), Sc.D. (Tufts); Member of the National Academy of Sciences; Member of the Deutsche Mathematiker-Vereinigung; Professor of Physics, Clark University, Worcester, Mass.
1891,	June	WEEKS, RUFUS WELLS, Ex-President of the Actuarial Society of America; Associate of the Institute of Actuaries; Corresponding Member of the Institut des Actuaires Français; Member of the Deutscher Verein für Versicherungs-Wissenschaft; Vice-President and Chief Actuary of the New York Life Insurance Company. *346 Broadway,* New York, N. Y.
1892,	Feb.	WELD, LAENAS GIFFORD, B.Sc., M.A.; Professor of Mathematics and Astronomy and Dean of the Graduate College, State University of Iowa, Iowa City, Ia.
1891,	Apr.	WELLS, WEBSTER, B.Sc.; Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass.
1896,	Sept.	WENTZ, ESTELLA KATE, M.Sc.; Instructor in Mathematics, Manual Training High School, Indianapolis, Ind.
1897,	Feb.	WERNICKE, AUGUST LUDWIG PAUL, Ph.D. (Göttingen); Member of the Deutsche Mathematiker-Vereinigung; Instructor in Mathematics, Washington University, St. Louis, Mo.
1897,	Dec.	*WESTERN, ALFRED EDWARD, M.A.; Member of the London Mathematical Society; Fellow of the Cambridge Philosophical Society. *36 Lancaster Gate,* London, W., England.
1902,	Dec.	WESTFALL, W. D. A., B.A., Ph.D. (Göttingen); Member of the Deutsche Mathematiker-Vereinigung; Instructor in Mathematics, University of Missouri, Columbia, Mo.

Date of Admission.		
1898,	Aug.	WESTLUND, JACOB, Ph.D. (Yale); Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Associate Professor of Mathematics, Purdue University, Lafayette, Ind. *222 Main Street, West Lafayette.*
1892,	Nov.	WHITE, HENRY SEELY, B.A., Ph.D. (Göttingen); Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Editor of the *Transactions of the American Mathematical Society;* Professor of Mathematics, Vassar College, Poughkeepsie, N. Y.
1902,	Apr.	WHITNEY, ALBERT WURTS, B.A.; Assistant Professor of Mathematics and Insurance Methods, University of California, Berkeley, Cal. *Canyon Road.*
1897,	Dec.	*WHITTAKER, EDMUND TAYLOR, M.A., Sc.D., F.R.S.; Member of the London Mathematical Society; F.R.A.S.; Fellow of Trinity College, Cambridge; Royal Astronomer of Ireland, Dunsink Observatory, Dublin, Ireland.
1897,	Feb.	WHITTEMORE, JAMES KELSEY, M.A.; Assistant Professor of Mathematics, Harvard University, Cambridge, Mass. *1010 Massachusetts Avenue.*
1899,	Feb.	WILCZYNSKI, ERNST JULIUS, Ph.D. (Berlin); Associate Professor of Mathematics, University of California, Berkeley, Cal. *2240 Telegraph Avenue.*
1892,	May	WILLARD, JOSEPH MOODY, B.A.; Professor of Mathematics, Pennsylvania State College, State College, Center County, Pa.
1895,	May	WILLIAMS, CLARKE BENEDICT, M.A.; Olney Professor of Mathematics, Kalamazoo College, Kalamazoo, Mich. *214 Stuart Avenue.*
1892,	May	WILLIAMS, ELLA CORNELIA, M.A. *106 West 49th Street,* New York, N. Y.
1905,	Sept.	WILLIAMS, JOHN EDWARD, M.A., Ph.D. (Virginia); Professor of Mathematics, Virginia Polytechnic Institute, Blacksburg, Va.
1898,	Apr.	WILLIAMS, WILLIAM HILL, M.A.; Professor of Mathematics, Wisconsin State Normal School, Platteville, Wis.
1891,	May	WILLSON, FREDERICK NEWTON, M.A., C.E.; Professor of Descriptive Geometry, Stereotomy, and Technical Drawing, John C. Green School of Science, Princeton University, Princeton, N. J. *P. O. Box 63.*

Date of Admission.		
1901,	Oct.	WILSON, ALBERT HARRIS, M.Sc.; Associate Professor of Mathematics, Alabama Polytechnic Institute, Auburn, Ala.
1906,	Apr.	WILSON, ALBERT MILLER, M.A.; Teacher of Mathematics, McKinley High School, St. Louis, Mo.
1904,	Sept.	WILSON, DELONZA TATE, M.A., Ph.D. (Chicago); Member of the Astronomical and Astrophysical Society of America; Assistant Professor of Mathematics and Astronomy, Case School of Applied Science, Cleveland, Ohio.
1899,	Dec.	WILSON, EDWIN BIDWELL, B.A., Ph.D. (Yale); Member of the Société Mathématique de France; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Associate Editor of the *Transactions of the American Mathematical Society;* Assistant Professor of Mathematics, Yale University, New Haven, Conn.
1900,	Dec.	WILSON, NORMAN RICHARD, M.A.; Assistant Professor of Mathematics, Wesley College, University of Manitoba, Winnipeg, Canada.
1903,	Oct.	WILSON, ROBERT EDWARD, B.Ph., M.A.; Member of the Deutsche Mathematiker-Vereinigung; Instructor in Mathematics, Northwestern University, Evanston, Ill. *1939 Sherman Avenue.*
1906,	Sept.	WITHERS, JOHN WILLIAM, B.Sc., M.A., Ph.D. (Yale); President of Teachers College, St. Louis, Mo.
1899,	Dec.	WOOD, RUTH GOULDING, B.L., Ph.D. (Yale); Instructor in Mathematics, Smith College, Northampton, Mass. *113 Prospect Street.*
1895,	Oct.	WOODS, FREDERICK S., M.A., Ph.D. (Göttingen); Editor of the *Annals of Mathematics;* Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass. *123 Sumner Street, Newton Centre, Mass.*
1891,	May	*WOODWARD, ROBERT SIMPSON, C.E., Ph.D., Sc.D., LL.D.; EX-PRESIDENT; Member of the National Academy of Sciences; Associate Editor of *Science;* President of the Carnegie Institution of Washington. The Carnegie Institution, Washington, D. C.
1891,	May	WORTHEN, THOMAS WILSON DORR, M.A.; Professor of Mathematics, Dartmouth College, Hanover, N. H.
1903,	Dec.	WRIGHT, JOSEPH EDMUND, M.A.; Member of the London Mathematical Society; Fellow of Trinity College, Cambridge, England; Associate Professor of Mathematics, Bryn Mawr College, Bryn Mawr, Pa.

Date of Admission.		
1898,	Oct.	WRIGHT, WALTER CHANNING, Member of the Actuarial Society of America; Consulting Life Insurance Actuary. *45 Milk Street, Room 77*, Boston, Mass.
1902,	Oct.	YANNEY, BENJAMIN FRANKLIN, M.A.; Professor of Mathematics, Mount Union College, Alliance, Ohio.
1903,	Dec.	YOUNG, ARCHER EVERETT, B.A., Ph.D. (Princeton); Member of the Deutsche Mathematiker-Vereinigung; Instructor in Mathematics, Purdue University, Lafayette, Ind. *1502 Cason Street.*
1891,	May	YOUNG, JACOB WILLIAM ALBERT, M.A., Ph.D. (Clark); Assistant Professor of the Pedagogy of Mathematics, University of Chicago, Chicago, Ill. *5430 Washington Avenue.*
1902,	Feb.	YOUNG, JOHN WESLEY, M.A., Ph.D. (Cornell); Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Collaborator of the *Bulletin des Sciences Mathématiques;* Assistant Professor of Mathematics, Princeton University, Princeton, N. J. *23 Madison Street.*
1902,	Oct.	YOUNG, WILLIAM HENRY, M.A., Sc.D.; Member of the London Mathematical Society; Fellow of the Cambridge Philosophical Society; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Lecturer in Higher Analysis, University of Liverpool, Liverpool, England. *Wilhelm-Weberstrasse 44A, Göttingen, Germany.*
1893,	Mar.	YOWELL, EVERETT IRVING, M.Sc., C.E.; Instructor in Mathematics, U. S. Naval Academy, Annapolis, Md.
1891,	Apr.	ZIWET, ALEXANDER, C.E.; Member of the Deutsche Mathematiker-Vereinigung; Editor of the *Bulletin of the American Mathematical Society;* Professor of Mathematics, University of Michigan, Ann Arbor, Mich. *644 South Ingalls Street.*

Number of members, January 1, 1907	548
Number of members, January 1, 1906	504
Members admitted during the year 1906	61
Members withdrawing during the year 1906	17
Number of life-members	50

CONSTITUTION.

Article I.

This Society shall be called the American Mathematical Society.

Article II.

The object of the Society shall be to encourage and maintain an active interest in mathematical science.

Article III.

The officers of the Society shall be a President, two Vice-Presidents, a Secretary, a Treasurer, a Librarian, and a Committee of Publication to consist of three members who at the same time may hold individually any of the other offices.

Article IV.

The officers of the Society, the ex-Presidents, the Editorial Committee of the Transactions, and twelve other members of the Society shall constitute a Council, which shall have general charge of the affairs of the Society.

Article V.

1. The officers of the Society and four other members of the Council shall be elected by ballot at the Annual Meeting of each year. An official ballot shall be sent to each member at least one month prior to the Annual Meeting, and such ballots, if returned to the Secretary in envelopes bearing the names of the voters, shall be counted at the Annual Meeting. Each such ballot shall contain a name proposed by the Council for each vacancy, with blank spaces in which the voter may substitute other names. A majority of all votes cast in person or by mail shall be necessary to election. In case of failure to secure a majority for any office, the members present at the Annual Meeting shall choose by ballot between the two having the highest number of votes. The members of the Editorial Committee of the Transactions shall be appointed by the Council.

2. The ex-Presidents of the Society shall be permanent members of the Council; the term of office otherwise shall be two years for the President, one year for other officers, and three years for other members of the Council, and until their successors shall be elected. For election as President shall be eligible those members of the Society who have served in the office of Vice-President and who are not holding office as President or Vice-President; and for

election as Vice-President shall be eligible those members of the Society not holding office as President or Vice-President. No elected member of the Council, having completed a term of three years, shall be reëlected until at least one year shall have intervened.

3. If the President of the Society die or resign before the expiration of his term of office, the Council may designate one of the Vice-Presidents to serve as Acting President until the next Annual Meeting, when a President shall be elected by the Society. Such vacancies as may exist at any time among the other offices may be filled by the Council. If any elected member of the Council die or resign more than one year before the expiration of his term, the vacancy for the unexpired term shall be filled by the Society at the next Annual Meeting.

Article VI.

This Constitution shall not be amended unless notice of the proposed amendment be sent by mail to every member of the Society at least four weeks in advance of the meeting at which such amendment is to be considered; and such amendment in order to be adopted must receive two-thirds of the votes cast in person and by mail.

BY-LAWS.

I.

The election of new members of the Society shall be by vote of the Council. Application for admission shall be made by the applicant personally, on blanks provided by the Secretary, and shall be endorsed by two members of the Society. Such applications, being received at any meeting of the Council, shall be laid over for action at any subsequent meeting.

II.

1. Persons elected by the Council, as provided in By-Law I, shall be admitted to membership in the Society upon the payment, within sixty days of the date of their election, of an initiation fee of five dollars.

2. The annual dues shall be five dollars, payable on the 1st of January. Each new member shall pay in proportion to the unexpired fraction of the year at the time of his election. Should the annual dues of any member remain unpaid beyond a reasonable time, the Council shall remove his name from the list of members, after due notice.

3. On the payment of fifty dollars in one sum, any member of at least four years standing and not in arrears of dues may become a life member and shall thereafter be exempt from all annual dues.

III.

The times and places of meetings of the Society shall be designated by the Council, but the Annual Meeting shall be held on a date between the 26th and 31st of December, inclusive; and Regular Meetings shall be held on the last Saturday of February, April, and October, unless otherwise ordered by the Council. Notice of the time and place of each meeting shall be sent by the Secretary to all members of the Society.

IV.

Whenever it shall appear to the Council that a sufficient number of members of the Society are desirous of conducting in any locality periodic meetings for the reading and discussion of mathematical papers, the Council may authorize the formation of a Section to be composed at each Sectional meeting of such members of the Society as may be present; and the Council shall have the right to withdraw such authorization.

V.

Papers intended for presentation at any meeting or sectional meeting of the Society shall be passed upon in advance of the meeting by a programme committee appointed by or under the authority of the Council; and only such papers shall be presented as shall have been approved by such committee. Papers in form unsuitable for publication, if accepted for presentation, shall be referred to on the programme as preliminary communications or reports.

VI.

1. The order of business at the meetings of the Society shall be as follows:
   1. Reading of the minutes.
   2. Recommendations and reports.
   3. Elections.
   4. Miscellaneous business.
   5. Presentation and discussion of papers previously approved by the programme committee.

2. No question relative to administration shall be considered at any meeting except the Annual Meeting without the recommendation of the Council.

VII.

It shall be the duty of each President to deliver an address before the Society at the Annual Meeting at which his term of office expires.

VIII.

1. The President may convoke the Council whenever the affairs of the Society require it.

2. A request in writing from two members of the Council shall render the convocation obligatory.

IX.

1. The Society shall publish a periodical of critical and historical nature, called the BULLETIN OF THE AMERICAN MATHEMATICAL SOCIETY.

2. The BULLETIN shall be in charge of the Committee of Publication, which may associate with itself other members of the Society whose editorial assistance it may require.

X.

1. The Society shall publish a periodical which shall have for its object to make known, as widely as possible, the more important researches presented at the meetings of the Society. This periodical shall be called the TRANSACTIONS OF THE AMERICAN MATHEMATICAL SOCIETY.

2. The editorial management of the TRANSACTIONS shall be entrusted to a committee of three editors, to be appointed by the Council. The three members of the committee appointed in 1899 shall serve respectively until 1902, 1903, and 1904. In and after 1902, annually at the February meeting, the Council shall appoint one member to serve for three years. Members of the committee shall be eligible to reappointment. Vacancies in the committee shall be filled by the Council.

3. The editorial committee shall have power to elect one of its members as editor-in-chief; but if at any time the committee shall report to the Council that it has been unable to agree upon an editor-in-chief, the Council shall designate one of the members of the committee to act as editor-in-chief. The committee shall have power to associate with itself other members of the Society whose editorial assistance it may require.

4. The TRANSACTIONS shall not be distributed free to the members of the Society; but members of the Society shall have the right to subscribe to the TRANSACTIONS at three-fourths of the advertised price.

XI.

No by-law shall be enacted, amended or suspended, except by a two-thirds vote of the members present at a meeting of the Society, and upon the recommendation of the Council.

ANNUAL REPORTS.

REPORT OF THE TREASURER FOR THE YEAR 1906.

Receipts.

Balance from 1905	$3,833.01
Annual dues for 1904	90.00
Annual dues for 1905	270.00
Annual dues for 1906	1,785.00
Annual dues for 1907	15.00
Dues from new members for parts of the year 1905	11.64
Dues from new members for parts of the year 1906	153.96
Initiation fees for 1905	80.00
Initiation fees for 1906	285.00
Life membership fees	500.00
Sale of reprints	173.87
Royalty on Chicago Congress Papers	12.00
Sale of Boston Colloquium Lectures	89.09
Sale of Bulletin by the Secretary	27.70
Sale of Bulletin by The Macmillan Company	525.90
Contributions in support of the Transactions:	
Columbia University	75.00
Cornell University	75.00
Haverford College	75.00
Northwestern University	75.00
Stanford University	75.00
University of California	75.00
University of Chicago	75.00
University of Missouri	75.00
Yale University	75.00
Sale of Transactions by the Treasurer	331.13
Sale of Transactions by The Macmillan Company	476.00
Sale of Transactions by the Secretary	65.25
Editorial Committee of Transactions	4.25
Interest on deposit in Fifth Avenue Trust Company	45.54
Interest on deposit in Union Square Savings Bank	71.53
Exchange	.41
	$9,521.28

DISBURSEMENTS.

Expenses of the Secretary's Office		$ 575.01
Expenses of the Treasurer's Office		43.76
Expenses of the Library		83.95
Expenses of the Committee of Publication		76.95
Expenses of the Editorial Committee of TRANSACTIONS		106.40
Publication of BULLETIN (nine numbers)		1,247.07
Publication of TRANSACTIONS (four numbers)		2,024.75
Annual Register		140.00
Expenses of the Chicago Section		5.60
Expenses of the San Francisco Section		12.60
Boston Colloquium Lectures		4.78
Exchange		4.61
		$4,325.48
Balance in Fifth Avenue Trust Company	$2,445.74	
Balance in Union Square Savings Bank	2,750.06	
		$5,195.80
		$9,521.28

The Life Membership Fund now amounts to $2,750.06.

WM. S. DENNETT,
Treasurer.

NEW YORK, December 14, 1906.

REPORT OF THE AUDITING COMMITTEE.

The undersigned Auditing Committee, appointed by the American Mathematical Society, have this day examined the accounts of the Treasurer and find the following to be correct:

Balance from December 16, 1905		$3,833.01
Cash receipts since December 16, 1905		5,688.27
		$9,521.28
Balance in Fifth Avenue Trust Co	$2,890.05	
Less outstanding check	444.31	
	$2,445.74	
Balance in Union Square Savings Bank	2,750.06	
Available balance in both banks	$5,195.80	
Disbursements since December 16, 1905	4,325.48	
		$9,521.28

G. A. BLISS,
WM. E. BRECKINRIDGE,
Auditing Committee.

NEW YORK, December 14, 1906.

REPORT OF THE LIBRARIAN FOR THE YEAR 1906.

I take pleasure in again announcing the steady growth of the library from year to year. Not only have more than two hundred volumes been added during the current year, but more than five hundred mathematical dissertations have been acquired by purchase or by gift, and the complete set of Boncompagni's *Bulletino di Bibliographia e di Storia delle Scienze Matematiche e Fisiche* (20 volumes) has been placed upon our shelves. The number of periodicals upon our exchange list has been increased to 167, and we now receive practically all of the leading mathematical journals of the world.

Unfortunately we are much hampered by lack of funds. Of our valuable set of dissertations, relatively few are bound, and we are unable even to bind all of the periodicals that we receive. If we were working merely for the present, in the attempt to make the library useful, there would be some cause for discouragement. But such a valuable collection as ours will not lie idle, neither will we fail to bind what we have and to complete our files of standard periodicals. In due time, by endowment or in some other manner, the necessary funds to carry on this important work will be secured.

I wish at this time to repeat my suggestion of previous years, that members of the Society send to the library, as well as to the *Bulletin,* copies of their publications. It is unfortunate that the works of so many of our members are not mentioned in our catalogue. Gifts of mathematical books, whether of historic or of scientific importance, are always welcome.

The following table shows the growth of the library in recent years:

	January 1, 1902.	January 1, 1904.	January 1, 1907.
Volumes of periodicals.....	32	981	1941
Volumes, non-periodical	89	354	608 *
Periodicals on exchange list.....	64	154	167

David Eugene Smith,
Librarian.

New York, December 26, 1906.

* Exclusive of unbound dissertations.

LIBRARY RULES.

1. Applications for books may be made in person, or by letter addressed to the AMERICAN MATHEMATICAL SOCIETY, 501 West 116th Street, New York. Members may, if they desire, apply in person directly to the superintendent of the loaning department of the Columbia University Library, where the Society's library is deposited. Books will be delivered directly to those applying in person, and will be sent to other applicants by express at the expense of the borrowers.

2. A book may be kept four weeks from the date of leaving the library, but the loan may be renewed from time to time by writing to the Society in advance of the day when the book is due.

3. Borrowers should return the books in person or by prepaid express.

CATALOGUE OF THE LIBRARY.

I. JOURNALS.

In case the Society has already any bound volumes, these are indicated in the list. Where no bound volumes are indicated, the journal has recently been placed upon the exchange list, and only the current unbound numbers are in the library. The journals are listed alphabetically according to the places of publication.

AMSTERDAM.

Nieuw Archief voor Wiskunde, Ser. 1, Vols. 1–20; Ser. 2, Vols. 1–6 (1875–1905).

Revue semestrielle des Publications mathématiques, Vols. 1–14 (1893–1906). *Tables des Matières*, 1892–1902.

Wiskundige Opgaven met de Oplossingen, Vols. 1–8 (1882–1902).

BALTIMORE.

American Journal of Mathematics, Vols. 1–28 (1878–1906); Index, Vols. 11–20.

BERLIN.

Akademie der Wissenschaften, Abhandlungen (selected mathematical memoirs), 1892–94, 1897, 1901, 1903, 1904; *Monatsberichte*, 1857–1868, 1870–1881, *Sitzungsberichte*, 1891–1905, Indexes, 1836–1858, 1859–1873, 1874–1881.

Jahrbuch über die Fortschritte der Mathematik, Vols. 15–34 (1883–1903).

Journal für die reine und angewandte Mathematik, Vols. 96, 97, 109, 125–131 (1884–1906).

Sitzungsberichte der Berliner mathematischen Gesellschaft, Vols. 1–4 (1901–1905).

Unterrichtsblätter für Mathematik und Naturwissenschaften, Vols. 9–11 (1903–1905).

Veröffentlichungen d. K. Preus. Geodätischen Instituts, Vols. 1–2, 11, 19.

BOLOGNA.

Il Bolletino di Matematica, Vols. 1–4 (1902–1905).

R. Accademia delle Scienze, Memorie, Ser. 5, Vols. 8–10; Ser. 6, Vol. 1 (1899–1904); *Rendiconti, New Series*, Vols. 4–8 (1899–1904).

BORDEAUX.

Société des Sciences de Bordeaux, Memoires, Ser. 4, Vols. 1–5; Ser. 5, Vols. 1–5; Ser. 6, Vols. 1–3 (1893–1903); *Procès-verbaux*, 1894–1904; General Index, 1850–1900.

BOSTON.

American Academy of Arts and Sciences, Proceedings, Vols. 26–41 (1890–1906); *Memoirs*, Vol. 12 (1902).

Technology Quarterly, Vols. 4–19 (1891–1906).

BRAY-SUR-SEINE.

Journal des Géométres-Experts, Vols. 1–3, 9–14 (1893–1906).

BRESLAU.

Jahresbericht der schlessichen Gesellschaft für vaterländische Cultur, Vols. 80–82 (1903–1905).

BRISBANE, QUEENSLAND.

Proceedings of the Royal Society, Vols. 15–18 (1900–1904).

BRUSSELS.

Annales de la Société scientifique, Vols. 26–30 (1902–1906); Index, 1875–1901.

Annuaire astronomique de Observatoire Belgique, 1906.

Annuaire de l'Académie Royale, Vols. 68–72 (1902–1906).

Bulletin de la Classe des Sciences de l'Académie Royale, 1902–1905.

Mémoires couronnés et autre Mémoires de l'Académie Royale, Vols. 60–66 (1900–1904).

Mémoires couronnés et Mémoires des Savants étrangers de l'Académie Royale, Vols. 58–62 (1899–1904).

BUCHAREST.

Gazeta Matematica, Vols. 1–11 (1895–1906).

BUDAPEST.

See LEIPZIG.

BUENOS AIRES.

Anales de la Sociedad Cientifica Argentina, Vols. 55–61 (1903–1906).

CAMBRIDGE, ENG.

Cambridge Philosophical Society, Proceedings, Vols. 10–13 (1899–1906); *Transactions*, Vols. 17–19 (1899–1904).

CAMBRIDGE, MASS.

Annals of Mathematics, Ser. 1, Vols. 1–12; Ser. 2, Vols. 1–7 (1884–1906).

CHERBOURG.

Mémoires de la Société Nationale des Sciences naturelles et mathématiques de Cherbourg, Vols. 31–32, 34 (1897–1904).

CHICAGO.

The Astrophysical Journal, Vols. 1–24 (1895–1906).

The Monist, Vols. 1–7, 9–16 (1890–1906).

The Open Court, Vols. 11–20 (1897–1906).

School Science and Mathematics, Vols. 3–6 (1903–1906).

School Mathematics, Vol. 1 (1904).

CHRISTIANIA.

Archiv for Mathematik og Naturvidenskab, Vols. 21–26 (1899-1904).

Videnskabs-Selskabet i Christiania, Forhandlinger, 1898–1899, 1901–1905; *Skrifter*, 1898–1905; *Oversigt*, 1898–1900.

CITTÀ DI CASTELLO.

Le Matematiche pure ed applicate, Vols. 1–2 (1901–1903).

COIMBRA.

Jornal de Sciencias mathematicas e astronomicas, Vols. 9–15 (last) (1889–1905).

COPENHAGEN.

Nyt Tidsskrift for Matematik, Ser. A, Vols. 11–16 (1900–1905); Ser. B, Vols. 11–12, 14–16 (1900–1905).

Kgl. Danske Videnskabernes Selskab, Forhandlinger, Oversigt, 1900–1905; *Skrifter* (See BOOKS OTHER THAN JOURNALS, under COPENHAGEN).

CRACOW.

Bulletin International de l'Académie des Sciences de Cracovie, 1900–1905.

Katalog, Literatury Naukowej Polskiej, Vols. 2–4 (1902–1904).

DES MOINES.

The Analyst, Vol. 10 (1883).

DUBLIN.

Royal Dublin Society, Scientific Proceedings, New Ser., Vols. 1–10 (1878–1902); *Scientific Transactions*, Ser. 2, Vols. 1–8 (1877–1903); Index to *Proceedings and Transactions*, 1877–1898.

EDINBURGH.

Annals of the Royal Observatory, Vol. 1 (1902).

Proceedings of the Mathematical Society of Edinburgh, Vols. 1, 11–24 (1883–1906); Index, Vols. 1–20.

Royal Society of Edinburgh, Proceedings, Vols. 3–4, 10–12, 15–25 (1850–1905); *Transactions*, Vols. 37–40, 42–43 (1891–1905).

ERLANGEN.

Sitzungsberichte der physicalisch-medicinischen Societät zu Erlangen, Vols. 25–37 (1893–1905).

FORT MONROE.

Journal of the United States Artillery, Vols. 1–25 (1892–1906).

GHENT.

Mathesis, Ser. 1, Vols. 7–10; Ser. 2, Vols. 1–10; Ser. 3, Vols. 1–6 (1887–1906).

GLASGOW.

Proceedings of the Glasgow Philosophical Society, Vol. 30 (1898–1899).

GÖTTINGEN.

Gesellschaft der Wissenschaften, Nachrichten math.-phys. Klasse, 1892–1905; *Geschäftliche Mittheilungen*, 1894–1905.

GRENOBLE.

Annales de la Faculté des Sciences de l'Université de Grenoble, Vols. 13–17 (1901–1905).

HALIFAX.

Proceedings and Transactions of the Nova Scotian Institute of Sciences, Ser. 2, Vols. 1–2 (1890–1898).

HAMBURG. See LEIPZIG.

ITHACA.

Bulletin of the American Physical Society, Vols. 1–2, Vol. 3, No. 1 (last) (1899–1902).

Journal of Physical Chemistry, Vols. 1–10 (1896–1906).

KASAN.

Bulletin de la Société physico-mathématique de Kasan, Vols. 1–5, 7–13 (1891–1903).

KHARKOF.

Communications of the Mathematical Society of Kharkof, Ser. 2, Vols. 5–7 (1897–1902).

KIEFF.

University Isvistija, Vols. 43–45 (1903–1905).

LAWRENCE.

Kansas University Quarterly, Ser. A, Vols. 9–10 (1900–1901).

Kansas University Science Bulletin, Vols. 1–3 (1902–1906).

LEGHORN.

Periodico di Matematica, Ser. 1, Vols. 2–11; Ser. 2, Vols. 12–18; Ser. 3, Vols. 19–21 (1888–1906).

Supplemento al Periodico di Matematica, Vols. 2–9 (1898–1906).

LEIPZIG.

Archiv der Mathematik und Physik, Ser. 3, Vols. 1–10 (1901–1906).

Bibliotheca Mathematica, 1887–1905.

Jahresbericht der Deutschen Mathematiker-Vereinigung, Vols. 1–9; New Ser., Vols. 11–15 (2 sets, except Vols. 1–4) (1890–1906).

Mathematische Annalen, Vols. 41–43, 45–62 (1893–1906).

Mathematische und naturwissenschaftliche Berichte aus Ungarn, Vols. 1–20 (1882–1902).

Mittheilungen der mathematischen Gesellschaft in Hamburg, Vols. 2–3 (1890–1900).

Sächsische Gesellschaft der Wissenschaften, math.-phys. Classe; Abhandlungen, Vols. 25–28 (1899–1902); *Berichte*, Vols. 45–57 (1893–1905).

Zeitschrift für Mathematik und Physik, Vols. 44–53 (1899–1906).

Zeitschrift für mathematischen und naturwissenschaftlichen Unterricht, Vols. 23–29 (1892–1898).

LEMBERG.

Chronik der Ukrainischen Sevcenko-Gesellschaft der Wissenschaften, 1904–1905.

Sammelschrift der mathematisch-naturwissenschaftlichen Section der Sevcenko-Gesellschaft der Wissenschaften, Vols. 9–10 (1903–1904).

LICK OBSERVATORY, MT. HAMILTON.

Lick Observatory Contributions, Vols 3–5 (1893–1895); *Publications*, Vols. 1–6 (1887–1903).

LIÉGE.

Mémoires de la Société Royale des Sciences de Liége, Ser. 2, Vols. 19–20; Ser. 3, Vols. 1–5 (1897–1904).

LIMA.

Revista de Ciencias, Vols. 1–8 (1898–1905).

LIVORNO. See LEGHORN.

LONDON.

Educational Times, 1897–1905.

Journal of the Institute of Actuaries, Vols. 35–40 (1901–1906).

Royal Society, Philosophical Transactions, Ser. A. Vols. 192–205 (1899–1906); *Proceedings*, Vols. 62–77 (1898–1906); *Year Book*, Vols. 1–2 (1896–1898).

Proceedings of the London Mathematical Society, Vols. 1–35 (1865–1903); Ser. 2, Vols. 1–3 (1903–1905); Index, Vols. 1–30. *List of Members*, 1865–1899.

Mathematical Gazette, Vols. 1–3 (1896–1906).

Messenger of Mathematics, Vols. 6–7, 24–35 (1894–1906).

Quarterly Journal of Pure and Applied Mathematics, Vols. 31–37 (1899–1906).

LUXEMBURG.

Institut Grand-Ducal, Publications (*Section des Sciences naturelles et mathématiques*), Vols. 8–9, 15, 17–21, 23–27 (1865–1904).

MADRID.

Archivo de matematicas, 1896–1897 (last).

Memorias de la Real Academia de Ciencias, Vols. 14, 20–24 (1890, 1903–1906).

Rivista de la Real Academia de Ciencias, Vols. 1–4 (1904–1906).

MANCHESTER.

Memoirs and Proceedings of the Manchester Literary Society, Vols. 37–50 (1892–1906).

MARSEILLES.

Annales de la Faculté des Sciences de Marseilles, Vols. 11–13, 15 (1901–1905).

MEXICO.

Memorias y Rivista de la Sociedad Cientifica Antonio Alzate, Vols. 2–21, 23 (1888–1906).

MILAN.

Annali di Matematica pura ed applicata, Ser. 3, Vols. 2–12 (1899–1906); *General Index*, 1850–1897.

Reale Istituto Lombardo di Scienze e Lettere, Rendiconti, Ser. 2, Vols. 33–38 (1900–1906); *Memorie*, Vol. 19 (1900).

MODENA.

Regia Accademia di Scienze, Lettere, ed Arti, Memorie, Ser. 3, Vols. 1–5 (1898–1905).

MONTPELLIER.

Mémoires de l'Académie des Sciences de Montpellier, Ser. 2, Vols. 1–2 (1893–1900).

MOSCOW.

Transactions of the Mathematical Society of Moscow, Vols. 1–24 (1866–1903); Index, Vols. 1–15.

Physico-Mathematical Gazette, Vols. 1, 4–11, 13–22 (1880–1904).

MUNICH.

Hochschul-Nachrichten, Vol. 13 (1902–1903).

NAPLES.

Accademia delle Scienze fisiche e matematiche di Napoli, Atti, Ser. 2, Vols. 8–12 (1899–1905); *Rendiconti*, Vols. 34–44 (1895–1905); *Indice Generale dei Lavori*, 1737–1903.

NEW YORK.

Annual Register of the American Mathematical Society, 1891–1905.

Bulletin of the American Mathematical Society, Vols. 1–12 (1894–1906); General Index, 1891–1904; *Transactions,* Vols. 1–7 (1900–1906) (2 sets).

Bulletin of the Association of Teachers of Mathematics in the Middle States and Maryland, Vols. 1–3 (1904–1906).

Bulletin of the New York Mathematical Society, Vols, 1–3 (1891–1894) (2 sets).

Papers and Transactions of the Actuarial Society of America, Vols. 1–8 (1889–1904).

Physical Review, Vols. 16–23 (1903–1906).

Science, New Ser., Vols. 1–24 (1895–1906).

Transactions of the American Society of Civil Engineers, Vols. 55–56 (1905–1906).

NORTHFIELD.

Astronomy and Astrophysics, 1892–94.

Popular Astronomy, Vols. 10–14 (1902–1906).

ODESSA.

Viestnik Opytnoy Fisiki, Vols. 24–25.

Society of Naturalists of New Russia, Mathematical Section, Zapiski, Vol. 20 (1902).

PALERMO.

Atti dell' Accademia di Scienze di Palermo, Ser. 3, Vols. 1–6 (1891–1901).

Il Pitagora, Vols. 2–12 (1896–1906).

Rendiconti del Circolo matematico di Palermo, Vols. 1–21 (1884–1906); *Annuario,* 1898, 1900, 1904.

PARIS.

Bulletin des Sciences mathématiques et physiques élémentaires, Vols. 1–10 (1895–1904).

Bulletin de la Société mathématique de France, Vols. 21–33 (1893–1905).

Bulletin de la Société philomathique de Paris, New Ser., Vols. 4–7 (1901–1905).

Bulletin des Sciences mathématiques, Vols. 27–29 (1903–1905).

Bureau des Longitudes, Annuaire, 1903–1906.

Comptes rendus de l'Académie des Sciences de Paris, Vols. 136–141 (1903–1905).

Journal de Mathématiques pures et appliquées, Ser. 5, Vols. 1–10 (1895–1905).

L'Education mathématique, Vols. 5–7 (1902–1906).

L'Enseignement mathématique, Vols. 4–7 (1902–1905).

L'Intermédiare des Mathématiciens, Vols. 1–12 (1894–1905).

Nouvelles Annales de Mathématiques, Ser. 1, Vols. 1–20 (1842–1861); Ser. 2, Vols. 1–11 (1862–1872), 13–18 (1874–1879); Ser. 4, Vols. 3–5 (1903–1905).

Revue de l'Institut catholique, Vols. 7–10 (1902–1905).

Revue générale des Sciences, Vols. 13–16 (1902–1905).

Revue de Mathématiques spéciales, Vols. 13–16 (1902–1906).

PAVIA.

Rivista di Fisica, Matematica e Scienze Naturali, Vols. 7–12 (1903–1905).

PHILADELPHIA.

American Philosophical Society, Proceedings, Vols. 29–43 (1891–1904); *Transactions,* Vol. 20 (1902); *List of Surviving Members,* 1892.

PISA.

Annali della Scuola normale superiore, Vols. 1–9 (1871–1904).

PRAGUE.

Casopis pro pěstováni mathematiky a fysiky (Journal of Mathematics and physics), Vols. 21, 23–25, 27–35 (1892–1906); Index, Vols. 1–30.

Jednota českych Mathematikú Sbornik, Vols. 1–9. (See BOOKS OTHER THAN JOURNALS, under PRAGUE.

Česká Akademie Císare Františka Josefa pro Vědy, Slovesnost, a Umění (Francis Joseph Bohemian Academy of Sciences, Literature and Art), Rospravy. (The memoirs relating to mathematics only.) Vols. 1–12 (1891–1903).

Královské České Společnosti Náuk, Věstník (Royal Bohemian Academy of Sciences, Proceedings) 1899–1902, 1905; *Bulletin Internationale,* Vols. 7–9; *Jahresberichte,* 1905; *General Index,* 1884–1904.

RALEIGH.

Journal of the Elisha Mitchell Scientific Society, Vols. 9–12 (1892–1895).

RENNES.

Travaux scientifiques de l'Université, Vols. 1–4 (1902–1905).

ROME.

Accademia dei Lincei, Memorie, Vol. 4; *Rendiconti,* Ser. 5, Vols. 1–7, 9–15 (1892–1906).

Bulletino di Bibliografia e di Storia delle Scienze matematiche e fisiche, Vols. 1–20 (1868–1887) (Complete).

Pontificia Accademia dei Nuovi Lincei, Atti, Vols. 48–58 (1894–1905); *Memorie,* Vols. 15–18 (1898–1901).

Societa Italiana delle Scienze, Memorie di Matematica e di Fisica, Vols. 12–13 (1902–1905).

Rivista di Artiglieria e Genio, Vols. 1–4, New Ser., Vols. 1–3.

SAN FRANCISCO.

Publications of the Astronomical Society of the Pacific, Vols. 1–17 (1889–1905).

SPRINGFIELD, MO.

The American Mathematical Monthly, Vols. 1–13 (1894–1906).

ST. LOUIS.

Transactions of the St. Louis Academy of Sciences, Vols. 5–15 (1886–1905).

STOCKHOLM.

Acta Mathematica, Vols. 1–29 (1882–1904).

ST. PETERSBURG.

Bulletin de l'Académie des Sciences, Vols. 1, 5–34 (1860–1892); Ser. 5, Vols. 3–16 (1895–1902).

STUTTGART.

Mathematisch-naturwissenschaftliche Mitteilungen, Ser. 1, Vols. 1–5 (1884–1892); Ser. 2, Vols. 1–6 (1899–1904).

Zeitschrift für Vermessungswesen, Vols. 31–34 (1902–1905).

TOKYO.

Sugaku-Butsurigaku Kwai Kiji (Journal of the Physico-Mathematical Society of Tokyo), Vols. 2–3, 5, 7–8; Ser. 2, Vol. 1–2 (1901–1906).

TOULOUSE.

Annales de la Faculté des Sciences de l'Université de Toulouse, Ser. 1, Vols. 5–12; Ser. 2, Vols. 1–7 (1890–1905).

Bulletin de l'Académie des Sciences de Toulouse, Vol. 3 (1899–1900).

Mémoires de l'Académie des Sciences de Toulouse, Ser. 10, Vols. 1–5 (1901–1905).

TURIN.

Reale Accademia di Scienze di Torino, Atti, Vols. 30–40 (1895–1905); Indexes, Vols. 21–30, 31–40; *Memorie*, Ser. 2, Vols. 48–55 (1899–1905).

Bolletino di Bibliografia e Storia delle Scienze matematiche, Vols. 1–8 (1898–1905).

Formulaire de Mathématiques, Vols. 1–4 (1895–1902).

Revue de Mathématiques, Vols. 1–8 (1891–1906).

ULM.

Jahresheft des Vereins für Mathematik und Naturwissenschaften, Vols. 9–12 (1899–1906).

UPSALA.

Universitets Arsskrift, 1901–1905.

VIENNA.

Monatshefte für Mathematik und Physik, Vols. 1–17 (1890–1906).

Sitzungsberichte der kaiserlichen Akademie der Wissenschaften in Wien, math.-naturwiss. Classe, Vols. 108–114 (1899–1905).

WARSAW.

Travaux de la Société de Naturalists, Imp. Université de Warsaw, Vols. 1–3, 13–15 (1891–1895, 1902–1904).

Prace matematyczno-fizyczne, Vols. 1–17 (1888–1906).

Tablice matematyczno-fizyczne, 1904.

Wiadomosci matematyczne, Vols. 1–10 (1897–1906).

WASHINGTON.

Publications of the U. S. Naval Observatory, Ser. 2, Vols. 1–5 (1900–1905).

Smithsonian Institution, Reports, 1885–87, 1889–90, 1895–1904.

ZARAGOSSA.

Revista trimestral de Matematicas, Vols. 1–5 (1901–1905).

ZURICH.

Vierteljahrschrift der naturforschenden Gesellschaft, Vols. 34–50 (1889–1905); Index, Vols. 41–50.

II. BOOKS OTHER THAN JOURNALS. ACCESSIONS IN 1905–1906.

ADAMS, J. L. The milky way, Sydney, 1905.
The infinity of the starry universe, Sydney, 1906.

AHRENS, W. Mathematische Unterhaltungen und Spiele, Leipzig, 1901.

AUTONNE, L. Sur les formes mixtes, Paris, 1905.

BAILLARD, B. and BOURGET, H. Correspondence d'Hermite et de Stieltjes, Vols. 1 and 2, Paris, 1905.

BARDEY, E. Algebraische Gleichungen, Leipzig, 1902.

BELFAST. Queen's College Calendar, 1905–6, 1906–7.

BOLYAI, W. und GAUSS, C. F. Briefwechsel, Leipzig, 1899.

BOLZA, O. Lectures on the calculus of variations, Chicago, 1904.

BOOLE, M. E. Preparation of the child for science, Oxford, 1904.

BOREL, E. Leçons sur les séries divergentes, Paris, 1901.
Leçons sur les séries à termes positifs, Paris, 1902.
Leçons sur les fonctions entières, Paris, 1900.

BOURGET, H. See BAILLARD, B.

BRIOSCHI, F. Opere matematiche, Vols. 1–3, Milan, 1902–1904.

BRISTOL. University College Calendar, 1905–6, 1906–7.

BRUNS, H. Grundlinien des wissenschaftlichen Rechnens, Leipzig, 1903.

BUCHERER, A. H. Elemente der Vektor-Analysis, Leipzig, 1903.
Mathematische Einführung in die Elektronentheorie, Leipzig, 1904.

CAIN, W. Symbolic algebra, New York, 1884.

CARDIFF. Calendar of the University College of South Wales, 1904–5.

CHICAGO. University of Chicago Decennial Publications. (Reprints from Ser. 1, Vols. 8–9, of the papers on mathematics, physics, astronomy and astrophysics.)

CLAY, C. M. Examples in algebra, New York, 1905.

CLEMENT-JONES, A. Notes on analytical geometry, Oxford, 1903.

COPENHAGEN. *Kgl. Danske Vidensk. Selsk. Skrifter.* (Mathematical parts only, including memoirs by the following authors: BERNOULLI, J., BRAHE, T., BROAGER, P. D., BRONSTED, J. N., BUCHWALDT, F., CAGNOLI, COLDING, D'ARREST, H. L., DEGEN, C. F., GRAM, J. P., HANSEN, P. A., HANSEN, P. C. V., HERTZSPRUNG, S., JUEL, C., JURGENSEN, C., LANDE, LORENZ, L., OLUFSEN, C. F. R., ÖRSTED, H. C., RAMUS, C., SCHJELLERUP, H. C. F. C., SCHMIDTEN, H. G., STEEN, A., THIELE, T. N., VALENTINER, H., WESSEL, C., ZEUTHEN, H. G., 1784–1899.)

COUTURAT, L. L'algèbre de la logique, Paris, 1905.

CUNNINGHAM, A. J. C. Binary canon, London, 1900.

CZUBER, E. Wahrscheinlichkeitsrechnung, Parts 1 and 2, 1902.

DISSERTATIONS of members of the AMERICAN MATHEMATICAL SOCIETY.

AMES, L. D. An arithmetic treatment of some problems in analysis situs, Baltimore, 1905.

BOLZA, O. Über die Reduction hyperelliptischer Integrale erster Ordnung und erster Gattung auf elliptische, insbesondere über die Reduction durch eine Transformation vierten Grades, Berlin.

BUSSEY, W. H. Generational relations for the abstract group simply isomorphic with the group LF [2, p^n], London, 1904.

EPSTEEN, S. Untersuchungen über lineare Differential-gleichungen 4. Ordnung und die zugehörigen Gruppen, Zurich, 1901.

FINDLAY, W. The Sylow subgroups of the symmetric group, New York, 1904.

FINE, H. B. On the singularities of curves of double curvature, Baltimore, 1886.

MOORE, C. L. E. Classification of the surfaces of singularities of the quadratic spherical complex, Baltimore, 1905.

NEIKIRK, L. I. Groups of order p^m which contain cyclic subgroups of order p^{m-3}, Philadelphia, 1905.

SLAUGHT, H. E. The cross ratio group of 120 quadratic Cremona transformations of the plane, Baltimore, 1901.

STORY, W. E. On the algebraic relations existing between the polars of a binary quantic, Leipzig, 1875.

TOWNLEY, S. D. The orbit of Psyche, San Francisco, 1905.

TYLER, H. W. Beziehungen zwischen der Sylvester'schen und der Bezout'schen Determinante, Munich, 1891.

WERNICKE, P. Über die Analysis situs mehr-dimensionaler Raüme, Göttingen, 1904.

WESTFALL. Zur Theorie der Integralgleichungen, Göttingen, 1905.

DOLL, M. and NESTLE, P. Lehrbuch der praktischen Geometrie, Leipzig, 1905.

DUBLIN. Examination papers of the Royal University, 1904.
Calendar of the Royal University, 1905.

DUHEM, P. Recherches sur l'hydrodynamique, Paris, 1904.

ENCYCLOPÄDIE der mathematischen Wissenschaften, Vol. 1, Leipzig, 1904.

ESTANAVE, E. Essai sur la sommation de quelques séries trigonométriques, Paris, 1903.

FASSBINDER, C. Theorie et pratique des approximations numérique, Paris, 1906.

FINE, H. B. College Algebra, Boston, 1905.

FOERING and LAMBERT. Plane and spherical trigonometry, 1905.

FORSYTH, A. R. Theory of differential equations, Vols. 5 and 6 (Partial differential equations), Cambridge, 1906.

GAUSS, C. F. Werke, Vol. 9, 1903.
See BOLYAI, W.

GOURSAT, E. Cours d'analyse mathématique, Vol. 2, Paris, 1905.

GOURSAT-HEDRICK. Mathematical analysis, Vol. 1, Boston, 1905.

GRANVILLE, W. A. Elements of the differential and integral calculus, Boston, 1904.

GUICHARD, G. Sur les systèmes triplement indetermines et sur systèmes orthogonaux (Scientia, No. 25), Paris, 1905.

HALSTED, G. B. Rational geometry, New York, 1904.

HAMMER, E. Sechstellige Tafel der Werte von $\log \frac{1+x}{1-x}$, Leipzig, 1902.

HAUBER, W. Statik, Vols. 1–2, Leipzig, 1903–1904.

HEDRICK, E. R. See GOURSAT.

HENSEL, K. and LANDSBERG, G. Theorie der algebraischen Funktionen einer Variablen und ihre Anwendungen auf algebraische Kurven und Abelsche Integrale, Leipzig, 1902.

HERMITE, CH., POINCARÉ, H., ROUCHÉ, E. Oeuvres de Laguerre, Vol. 2, Paris, 1905.
See PICARD.

HILL, G. W. Collected mathematical works, Vols. 1–3, Baltimore, 1905–1906.

HOCHHEIM, A. Analytische Geometrie der Ebene, Vol. 1, Leipzig, 1904.

HOLZMÜLLER, G. Ingenieur-Mathematik, Das Potential, Leipzig, 1898.

HOSKINS, L. M. Theoretical mechanics, Stanford University, 1903.

HUBBELL, H. The geometry of Euclid, 1861.

HUDSON, R. W. H. T. Kummer's quartic surface.

ISSALY, L'ABBE. Principes fondamentaux de la théorie des pseudo-surfaces, Paris, 1902.

JOHNSON, W. W. The theory of errors and method of least squares, New York, 1892.
A treatise on ordinary and partial differential equations, New York, 1896.
Theoretical mechanics, New York, 1901.
Elementary treatise on the differential calculus, New York, 1904.

JOUFFRET, E. Melanges de géométrie a quatre dimensions, Paris, 1906.

KIEPERT, L.,—STEGEMAN, M. Grundriss der Differential- und Integral-Rechnung, Hanover, 1900–1901.

KRAZER, A. Verhandlungen des III Internationalen Mathematiker-Congresses in Heidelberg, 1904. Leipzig, 1905.

KÜBLER, B. J. Woher kommen die Weltgesetze?

LAMBERT. See FOERING.

LANDSBERG, G. See HENSEL.

LARMOR, J. Aether and matter, Cambridge, 1900.

LAURENT, H. Sur le principes fondamentaux de la théorie des nombres.

LECHALAS, G. Introduction à la géométrie générale, Paris, 1904.

LEVAVASSEUR, R. Groupes d'ordres finis et groupes finis continus, Lyons, 1904.

LINDELÖF, E. Calcul des résidus, Paris, 1904.

LYMAN, E. A. Advanced arithmetic, New York, 1905.

MCAULAY, A. Utility of quaternions in physics, London, 1893.

MCCORMACK, T. J. See MACH, E.

MCMURRY, C. A. Special method in arithmetic, New York, 1905.

MACH, E. Space and geometry (English translation by MCCORMACK, T. J.), Chicago, 1906.

MARCOLONGO, R. Teoria matematica dello equilibrio dei corpi elastici, Milan, 1904.

MOORS, B. P. Les systéme des poids, mesures, et monnaies des Israélites, Paris, 1904.

MURRAY, D. A. Practical mathematics, New York, 1905.

NESTLE, P. See DOLL, M.

OSGOOD, W. F. Collected papers, Vols. I, II.
Lehrbuch der Funktionentheorie, Vol. 1, first half, Leipzig, 1906.

OSTENFELD, A. Technische Statik (a German translation by SKOUGE, D.), Leipzig, 1904.

PASCAL, E. Lezioni di calculo infinitesimale, Part I, integrale; Part II, differenziale, Milan, 1902–1903.

PETRONIEVICS, B. Principien der Metaphysik, Vol. 1, Heidelberg, 1904.

PHILADELPHIA. Franklin bicentennial celebration, 1906.

PICARD, E. Oeuvres de Charles Hermite, Vol. 1, Paris, 1905.
Sur le developpement de l'analyse, Paris, 1905.
Traité d'analyse, Paris, 1896.

POINCARÉ, H. Electricité et optique, la lumière et les théories électrodynamiques, 1901.
Théorie de Maxwell—La telegraphie sans fil (Scientia, No. 23), Paris, 1904.
See HERMITE, CH.

PRAGUE. *Jednota českých mathematiku Sbornik.*
Vol. 1. WEYR, E. Projectivná geometrie, 1898.
Vol. 2. KOLÁČEK, F. Hydrodynamika, 1899.
Vol. 3. STUDNIČKA, F. J. Úvod do nauky o determinantech, 1900.
Vol. 4. STROUHAL, C. Mechanika, 1901.
Vol. 5. WEYR, E. Počet differenciálný, 1902.
Vol. 6. STROUHAL, C. Akustika, 1903.
Vol. 7. STUDNICKA, F. J. Analytické geometrie, V rovině, 1903.
Vol. 8. KOLOUŠEK, J. Mathematická theorie důchodů jistých a pujček annuitních, 1904.
Vol. 9. KOLÁČEK, F. Electřina a magnetismus, 1905.

RIEMANN, B.—STAHL, H. Elliptische Funktionen, Leipzig, 1899.

ROUCHÉ, E. See HERMITE, CH.

SCHILLING, F. Ueber die Anwendungen der darstellenden Geometrie, Leipzig, 1904.

SCHMALL, C. N. and SHACK, S. M. Plane Geometry, New York, 1904.

SCHÖNFELD, G. A. Die Kromme van den vierden Graad in de vierdimensionale Ruimte, Groningen, 1904.

SHACK, S. M. See SCHMALL, C. N.

SHEARMAN, A. T. The development of symbolic logic, London, 1906.

SKOUGE, D. See OSTENFELD, A.

SMITH, D. E. Portfolio of portraits of eminent mathematicians, Parts 1–2, Chicago, 1905.

SOLVERT, M. Mémoires sur une classe de fonctions elliptiques, Brussels, 1903.

SOMERVILLE, F. H. First year in algebra, New York, 1905.

STAHL, H. See RIEMANN, B.

STARKE, H. Experimentelle Elektrizitätslehre, Leipzig, 1904.

STEGEMANN, M. See KIEPERT, L.

STEPHAN, P. Die technische Mechanik, Vol. 1, (starre Körper), Leipzig, 1904.

STRINGHAM, I. Uniplanar algebra, San Francisco, 1893.

SIDNEY. Calendar of the University, 1905, 1906.

VAN VLECK, E. B., WHITE, H. S., WOODS, F. S. The Boston Colloquium Lectures on Mathematics, New York, 1905.

WANGERIN, A. Verhandlungen der Breslauer Naturforscher-Versammlung, Leipzig, 1905.

WENTWORTH, G. A. Elementary arithmetic, Boston, 1906.

WHITE, H. S. See VAN VLECK, E. B.

WILCZYNSKI, E. J. Projective differential geometry of curves and ruled surfaces, Leipzig, 1906.

WILLIOT, V. Etudes sur les nombres premiers, part 1, Paris, 1903.

WILSON, J. C. On the traversing of geometrical figures, Oxford, 1905.

WOODS, F. S. See VAN VLECK, E. B.

AMERICAN MATHEMATICAL SOCIETY

Organized as the New York Mathematical Society, November, 1888
Reorganized as the American Mathematical Society, July, 1894

ANNUAL REGISTER

JANUARY, 1908

NEW YORK:
PUBLISHED BY THE SOCIETY
501 WEST 116TH STREET
1908

PRESS OF
THE NEW ERA PRINTING COMPANY
LANCASTER, PA.

DIRECTORY

Offices of the Secretary, Librarian, and Committee of Publication,
501 West 116th Street, New York, N. Y.

Office of the Treasurer,
Cornell Heights, Ithaca, N. Y.

Secretary of the Chicago Section,
H. E. SLAUGHT, *University of Chicago, Chicago, Ill.*

Secretary of the San Francisco Section,
W. A. MANNING, *Stanford University, Cal.*

Secretary of the Southwestern Section,
O. D. KELLOGG, *University of Missouri, Columbia, Mo.*

Changes of address should be immediately communicated to the Secretary for entry in the mailing lists of the Society.

Membership dues should be remitted to Professor J. H. TANNER, Treasurer, Cornell Heights, Ithaca, N. Y., by draft or money order, drawn payable to the AMERICAN MATHEMATICAL SOCIETY.

The following dates have been fixed for the meetings of the Society during the year 1908:

Saturday, February 29,	Saturday, October 31,
Saturday, April 25,	Tu.-Wed., December 29–30.

The meeting of December 29–30 will be the Annual Meeting of the Society for the election of officers.

Meetings of the Chicago Section will be held in April and during the Christmas holidays. The San Francisco Section will meet on February 29 and September 26. The meeting of the Southwestern Section will be held about December 1.

Papers intended for presentation at any meeting or sectional meeting of the Society should be sent to the Secretary or Secretary of the Section in advance of the meeting for submission to the Programme Committee, and should be accompanied by an abstract, suitable for publication in the BULLETIN, and a statement of the time required for presentation. Blanks for the entry of abstracts will be furnished by the Secretaries, on application.

PUBLICATIONS

Transactions

of the

American Mathematical Society

EDITED BY

MAXIME BÔCHER,
EDWARD BURR VAN VLECK, HENRY SEELY WHITE,

with the coöperation of

CHARLES LEONARD BOUTON, LEONARD EUGENE DICKSON,
JOHN IRWIN HUTCHINSON, EDWARD KASNER,
EDWIN BIDWELL WILSON.

Published quarterly by the Society with the support of

YALE UNIVERSITY, NORTHWESTERN UNIVERSITY,
COLUMBIA UNIVERSITY, VASSAR COLLEGE,
WESLEYAN UNIVERSITY, THE UNIVERSITY OF ILLINOIS,
THE UNIVERSITY OF MISSOURI, CORNELL UNIVERSITY,
THE UNIVERSITY OF CHICAGO.

The TRANSACTIONS is devoted primarily to research in pure and applied mathematics, and is the official organ of the Society for the publication of important original papers read before it. The first number appeared in January, 1900.

Publication Agents, The Macmillan Company, 66 Fifth Avenue, New York, N. Y. Subscription price $5.00 per annum; to members of the Society $3.75 per annum, back volumes at the same price. Members' subscriptions should be sent to the Treasurer of the Society.

PUBLICATIONS

Bulletin of the American Mathematical Society

CONTINUATION OF THE BULLETIN OF THE NEW YORK MATHEMATICAL SOCIETY.

A HISTORICAL AND CRITICAL REVIEW OF MATHEMATICAL SCIENCE.

EDITED BY

F. N. COLE, D. E. SMITH, VIRGIL SNYDER,
ALEXANDER ZIWET, FRANK MORLEY,
J. W. YOUNG, W. B. FORD.

The BULLETIN contains a large number of critical reviews of mathematical treatises and text-books, a complete monthly list of new mathematical publications, notes on current events in the mathematical world, addresses before mathematical bodies, reports on progress in various branches of the science, reports of the meetings of the Society and of other mathematical societies and congresses, and many short original articles.

Published for the Society by the Macmillan Company, 66 Fifth Avenue, New York, N. Y. Issued monthly, except August and September. Sent free to members of the Society. Subscription price to non-members $5.00. Members of the Society are entitled to receive back volumes of the present Series to complete their sets at $4.00 per volume, so far as the supply permits. A member connected with an educational institution may order the current volume for its library at $2.50

Books for review and manuscripts intended for publication in the BULLETIN should be sent to one of the members of the Committee of Publication. Subscriptions to the BULLETIN and orders for back numbers should be addressed to The Macmillan Company.

PUBLICATIONS

Published Papers. Vol. I

MATHEMATICAL PAPERS READ AT THE INTERNATIONAL MATHEMATICAL CONGRESS HELD IN CONNECTION WITH THE WORLD'S COLUMBIAN EXPOSITION, CHICAGO, 1893.

EDITED BY THE COMMITTEE OF THE CONGRESS:

E. HASTINGS MOORE, OSKAR BOLZA, HEINRICH MASCHKE, HENRY S. WHITE.

Containing papers by Bolza, Burkhart, Capelli, Cole, Dyck, Echols, Eddy, Fricke, Halsted, Heffter, Hermite, Hilbert, Hurwitz, Klein, Krause, Lemoine, Lerch, Macfarlane, Martin, Maschke, Meyer, Minkowski, Moore, Netto, Noether, D'Ocagne, Paladini, de Perott, Pervouchine, Pincherle, Pringsheim, Sawin, Schlegel, Schoenflies, Stringham, Study, Taber, Weber, Weyr.

Published for the Society by The Macmillan Company, 1896. 8vo, pp. 411. Price, $3.00; to members of the Society, $1.50.

PUBLICATIONS

The Boston Colloquium Lectures on Mathematics

Delivered from September 2 to 5, 1903, Before Members of the American Mathematical Society in Connection with the Summer Meeting Held at the Massachusetts Institute of Technology, Boston, Mass.

I. Linear Systems of Curves on Algebraic Surfaces.
By Henry S. White.

II. Forms of Non-Euclidean Space.
By Frederick S. Woods.

III. Selected Topics in the Theory of Divergent Series and of Continued Fractions.
By Edward B. Van Vleck.

Published for the Society by The Macmillan Company, 1905. 8vo, pp. 175 + v. Price, $2.00 ; to members of the Society, $1.50.

OFFICERS PAST AND PRESENT

PRESIDENT.

J. H. Van Amringe,	1888–1890,	R. S. Woodward,	1898–1900,
Emory McClintock,	1890–1894,	Eliakim H. Moore,	1900–1902,
G. W. Hill,	1894–1896,	Thomas S. Fiske,	1902–1904,
Simon Newcomb,	1896–1898,	W. F. Osgood,	1904–1906,

H. S. White, 1906–.

VICE-PRESIDENTS.

Emory McClintock,	1889–1890,	W. F. Osgood,	1902–1903,
J. K. Rees,	1890–1891,	Alexander Ziwet,	1902–1903,
Henry B. Fine,	1891–1893,	Oskar Bolza,	1903–1904,
G. W. Hill,	1893–1894,	J. M. Van Vleck,	1903–1904,
H. A. Newton,	1894–1896,	E. W. Brown,	1904-1905,
R. S. Woodward,	1896–1898,	James Pierpont,	1904–1905.
Eliakim H. Moore,	1897-1900,	Charlotte A. Scott,	1905–1906,
Thomas S. Fiske,	1898–1901,	Irving Stringham,	1905–1906,
Henry S. White,	1900–1901,	Heinrich Maschke,	1906–1907,
Maxime Bôcher,	1901–1902,	P. F. Smith,	1906–1907,
Frank Morley,	1901–1902,	James Harkness,	1907–1908,

G. A. Miller, 1907–1908.

SECRETARY.

Thomas S. Fiske,	1888–1895,	F. N. Cole,	1895– .

TREASURER.

Thomas S. Fiske,	1888–1891,	Harold Jacoby,	1896–1899,
Harold Jacoby,	1891–1894,	W. S. Dennett,	1899–1907,
R. S. Woodward,	1894–1896,	J. H. Tanner,	1907– .

LIBRARIAN.

D. A. Murray,	1892–1893,	Edward L. Stabler,	1894–1895,
Gustave Legras,	1893–1894,	Pomeroy Ladue,	1895–1901,

D. E. Smith, 1901– .

COMMITTEE OF PUBLICATION.

Thomas S. Fiske,	1891–1899,	F. N. Cole,	1898– ,
Harold Jacoby,	1891–1893,	Frank Morley,	1899–1902,
Alexander Ziwet,	1893–1907,	D. E. Smith,	1902– ,
Frank Morley,	1894-1898,	Virgil Snyder,	1907– .

MEMBERS OF THE COUNCIL

1908

OFFICERS.

H. S. WHITE, *President.*
JAMES HARKNESS, } *Vice-Presidents.*
G. A. MILLER, }
F. N. COLE, *Secretary.*
J. H. TANNER, *Treasurer.*
D. E. SMITH, *Librarian.*
F. N. COLE, }
D. E. SMITH, } *Committee of Publication.*
VIRGIL SNYDER, }

EX-PRESIDENTS.

J. H. VAN AMRINGE, SIMON NEWCOMB, T. S. FISKE,
EMORY MCCLINTOCK, R. S. WOODWARD, W. F. OSGOOD.
G. W. HILL, ELIAKIM H. MOORE,

ELECTED MEMBERS.

To Serve until December, 1908.

C. L. BOUTON, EDWARD KASNER,
L. E. DICKSON, E. J. TOWNSEND.

To Serve until December, 1909.

G. A BLISS, M. W. HASKELL,
E. W. BROWN, A. G. WEBSTER.

To Serve until December, 1910.

R. E. ALLARDICE, G. D. OLDS,
MAX MASON, M. B. PORTER.

EDITORIAL COMMITTEE OF THE TRANSACTIONS.

MAXIME BÔCHER, E. B. VAN VLECK, H. S. WHITE.

MEMBERS OF THE SOCIETY.

JANUARY 1, 1908.

Life members are designated by *.

Date of Admission.		
1892,	Nov.	ABBE, CLEVELAND, B.A., B.Sc., M.A., LL.D.; Member of the National Academy of Sciences; Member of the Astronomische Gesellschaft; F.R.A.S.; Member of the Deutsche Mathematiker-Vereinigung; Editor of the *Monthly Weather Review;* Associate Editor of *Beiträge zur Physik der Atmosphäre;* Professor of Meteorology, U. S. Weather Bureau; Professor of Meteorology, George Washington University, Washington, D. C.; Lecturer in Meteorology, Johns Hopkins University, Baltimore, Md. *U. S. Weather Bureau*, Washington, D. C.
1907,	Apr.	ACKERMANN-TEUBNER, BENEDICTUS GUSTAV ALFRED A., Ph.D. (honorary, Greifswald); Member of the Société Mathématique de France; Member of the London Mathematical Society; Member of the Circolo Matematico di Palermo; Member of the Astronomische Gesellschaft; Member of the Deutsche Mathematiker-Vereinigung. Publishing House of B. G. Teubner, Leipzig, Germany. *Poststrasse, 3.*
1907,	Oct.	AIYAR, V. RAMASWAMI, M.A.; Member of the London Mathematical Society; Member of the Edinburgh Mathematical Society. Deputy Collector, Madras Provincial Civil Service. Gooty, India.
1905,	Oct.	AKERS, OSCAR PERRY, M.A., Ph.D. (Cornell); Member of the Circolo Matematico di Palermo; Professor of Mathematics, Allegheny College, Meadville, Pa.
1891,	Nov.	ALEY, ROBERT JUDSON, M.A., Ph.D. (Pennsylvania); Member of the London Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Member of the Edinburgh Mathematical Society; Editor of the *Educator-Journal;* Professor of Mathematics, University of Indiana, Bloomington, Ind. *209 Forest Place.*

Date of Admission.		
1901,	Dec.	ALLARDICE, ROBERT EDGAR, M.A.; Fellow of the Royal Society of Edinburgh; Member of the Edinburgh Mathematical Society; Professor of Mathematics, Stanford University, Cal.
1897,	Dec.	ALLEN, JOSEPH, M.A.; Assistant Professor of Mathematics, College of the City of New York. *9 Myrtle Street*, White Plains, N. Y.
1905,	Oct.	ALLEN, REGINALD BRYANT, B.Sc., M.Sc., Ph.D. (Clark); Professor of Mathematics, Kenyon College, Gambier, Ohio.
1903,	Oct.	AMES, LEWIS DARWIN, M.A., Ph.D. (Harvard); Assistant Professor of Mathematics, University of Missouri, Columbia, Mo. *Thilly Avenue, Westmount.*
1907,	Dec.	AMMERMAN, CHARLES, M.A.; Instructor in Mathematics, McKinley High School, St. Louis, Mo.
1901,	Dec.	ANDREWS, GRACE, B.Sc., Ph.D. (Columbia). *"The Brevoort," 47 Brevoort Place*, Brooklyn, N. Y.
1903,	Oct.	*ARCHIBALD, RAYMOND CLARE, M.A., Ph.D. (Strassburg); Professor of Mathematics, Acadia University, Wolfville, Nova Scotia, Canada. *P. O. Box 240.*
1901,	Oct.	ASHTON, CHARLES HAMILTON, M.A.; Member of the Circolo Matematico di Palermo; Assistant Professor of Mathematics, University of Kansas, Lawrence, Kansas. *1202 Ohio Street.*
1907,	Dec.	ATCHISON, CLYDE SHEPHERD, B.A., Ph.D. (Johns Hopkins); Instructor in Mathematics, Williams College, Williamstown, Mass.
1906,	Feb.	BABB, MAURICE JEFFERIS, B.Sc.; Instructor in Mathematics, University of Pennsylvania, Philadelphia, Pa.
1903,	Feb.	BAILEY, FREDERICK HAROLD, M.A.; Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass.
1891,	June	BAKER, ALFRED, M.A.; Fellow of the Royal Society of Canada; Member of the Société Mathématique de France; Professor of Mathematics, University of Toronto, Toronto, Canada.
1891,	Feb.	BAKER, ARTHUR LATHAM, C.E., Ph.D.; Professor of Mathematics, Manual Training High School, Brooklyn, N. Y.
1904,	Oct.	BAKER, RICHARD PHILIP, B.Sc.; Instructor in Mathematics, State University of Iowa, Iowa City, Ia. *1004 East College Street.*

Date of Admission.

1894, Oct. BARNUM, CHARLOTTE CYNTHIA, B.A., Ph.D. (Yale); Coast and Geodetic Survey, Washington, D. C.

1903, Aug. BARTLETT, DANA PRESCOTT, B.Sc.; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics and Acting Secretary, Massachusetts Institute of Technology, Boston, Mass.

1892, Apr. BARTON, SAMUEL MARX, B.A., Ph.D.; Member of the Circolo Matematico di Palermo; Professor of Mathematics, University of the South, Sewanee, Tenn.

1891, Apr. BASS, EDGAR WALES, Graduate of the U. S. Military Academy; Colonel U. S. Army, retired. *77 Park Avenue*, New York, N. Y.

1903, Oct. BATES, WILLIAM HUNT, M.A.; Member of the Deutsche Mathematiker-Vereinigung; Instructor in Mathematics, Purdue University, Lafayette, Ind. *Columbia Flats.*

1900, Dec. BAUER, GEORGE NEANDER, M.Sc., Ph.D. (Columbia); Professor of Mathematics, University of Minnesota, Minneapolis, Minn.

1905, Feb. BECKETT, CHARLES HARRISON, B.A.; Assistant Professor of Mathematics, Purdue University, Lafayette, Ind.

1906, Sept. BEEBE, WILLIAM, M.A.; Professor of Mathematics, Yale University, New Haven, Conn. *262 Bradley Street.*

1891, Apr. BEMAN, WOOSTER WOODRUFF, M.A.; Member of the London Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Professor of Mathematics, University of Michigan, Ann Arbor, Mich. *813 East Kingsley Street.*

1901, Oct. BENEDICT, HARRY YANDELL, M.A., Ph.D. (Harvard); Professor of Applied Mathematics, University of Texas, Austin, Texas.

1897, Feb. *BERRY, ARTHUR, M.A.; Fellow of the Cambridge Philosophical Society; Member of the London Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; F.R.A.S.; Fellow and Assistant Tutor in Mathematics, King's College, Cambridge, England.

1906, Feb. BETZ, WILLIAM, B.A.; Head of the Department of Mathematics, East High School, Rochester, N. Y. *160 Grand Avenue.*

1902, Apr. BIKLÉ, CHARLES EARL, M.A.; Adjunct Professor of Mathematics, Teachers College, Columbia University, New York, N. Y.

Date of Admission.		
1906,	Feb.	BIRKHOFF, GEORGE DAVID, B.A., Ph.D. (Chicago); Instructor in Mathematics, University of Wisconsin, Madison, Wis.
1900,	Dec.	BLICHFELDT, HANS FREDERIK, M.A., Ph.D. (Leipzig); Associate Professor of Mathematics, Stanford University, Cal.
1900,	Dec.	*BLISS, GILBERT AMES, B.Sc., M.Sc., Ph.D. (Chicago); Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Editor of the *Annals of Mathematics;* Assistant Professor of Mathematics, Princeton University, Princeton, N. J. *35 Bank Street.*
1892,	Apr.	*BÔCHER, MAXIME, B.A., Ph.D. (Göttingen); Member of the Deutsche Mathematiker-Vereinigung; Editor of the *Transactions of the American Mathematical Society;* Professor of Mathematics, Harvard University, Cambridge, Mass. *48 Buckingham Street.*
1899,	Oct.	BOGARTE, MARTIN EUGENE, M.A.; Professor of Mathematics, Northern Indiana Normal School, Valparaiso, Ind. *College Avenue and Locust Street.*
1891,	Nov.	BOLZA, OSKAR, Ph.D. (Göttingen); Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, University of Chicago, Chicago, Ill.
1905,	Dec.	BÖRGER, ROBERT LACEY, M.A., Ph.D. (Chicago); Instructor in Mathematics, University of Illinois, Champaign, Ill. *306 East Healey Street.*
1898,	Dec.	*BOUTON, CHARLES LEONARD, M.Sc., M.A., Ph.D. (Leipzig); Member of the Deutsche Mathematiker-Vereinigung; Associate Editor of the *Transactions of the American Mathematical Society;* Assistant Professor of Mathematics, Harvard University, Cambridge, Mass. *5 Avon Street.*
1900,	Dec.	BOWDEN, JOSEPH, B.A., Ph.D. (Yale); Professor of Mathematics, Adelphi College, Brooklyn, N. Y. *24 Clifton Place.*
1891,	June	BOWSER, EDWARD ALBERT, C.E., LL.D.; Emeritus Professor of Mathematics, Rutgers College, New Brunswick, N. J.
1907,	Oct.	BOYD, PAUL PRENTICE, M.A.; Professor of Mathematics, Hanover College, Hanover, Ind.
1903,	Feb.	BRACKETT, FRANK PARKHURST, M.A.; Professor of Mathematics, Pomona College, Claremont, Cal.

Date of Admission.

1907, Apr. BRADSHAW, JOHN WILLIAM, M.A., Ph.D. (Strassburg); Instructor in Mathematics, University of Michigan, Ann Arbor, Mich. *530 Hill Street.*

1901, Dec. BRASEFIELD, STANLEY EUGENE, C.E., M.Sc.; Instructor in Mathematics and Graphics, Lafayette College, Easton, Pa. *327 Center Street.*

1903, Feb. BRECKENRIDGE, WILLIAM EDWIN, M.A.; Head of the Department of Mathematics, Stuyvesant High School, New York, N. Y. *345 East 15th Street.*

1906, Feb. BRENKE, WILLIAM CHARLES, M.Sc., Ph.D. (Harvard); Adjunct Professor of Mathematics, University of Nebraska, Lincoln, Neb. *1833 L Street.*

1902, Sept. BROMWICH, THOMAS JOHN I'ANSON, M.A., F.R.S.; Fellow of the Cambridge Philosophical Society; Member of the London Mathematical Society; Member of the Edinburgh Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Fellow and Lecturer of St. John's College, Cambridge, England. *1 Devana Terrace.*

1901, Dec. BROOKE, WILLIAM ELLSWORTH, B.C.E., M.A.; Professor of Mathematics, College of Engineering, University of Minnesota, Minneapolis, Minn.

1891, June BROOKS, JOHN MILTON, M.A.; Birmingham Building and Improvement Company, Birmingham, Ala. *2109 First Avenue.*

1892, Feb. *BROWN, ERNEST WILLIAM, M.A., Sc.D. (Cambridge); F.R.S.; Fellow of the Cambridge Philosophical Society; Member of the London Mathematical Society; F.R.A.S.; Member of the American Philosophical Society; Professor of Mathematics, Yale University, New Haven, Conn.

1900, Oct. BROWN, GEORGE LINCOLN, M.Sc., Ph.D. (Chicago); Professor of Mathematics and Astronomy, South Dakota Agricultural College, Brookings, S. D.

1902, Sept. *BROWN, J. STANFORD, B.Ph., M.A.; President of the Realty-Loan Trust Company; Vice-President and Treasurer of the New York Realty Owners Company. *10 Belmont Avenue,* Yonkers, N. Y.

1904, Apr. BROWNE, JOHN J., B.A.; Assistant Professor of Mathematics, Colorado School of Mines, Golden, Colo.

1907, Sept. BUCK, THOMAS, B.Sc.; Fellow in Mathematics, University of Chicago, Chicago, Ill. *5825 Kimbark Avenue.*

Date of Admission.		
1899,	Aug.	*Bullard, Warren Gardner, B.A., Ph.D. (Clark); Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Associate Professor of Mathematics, Syracuse University, Syracuse, N. Y. *613 South Crouse Avenue.*
1891,	June	Bullis, Abram Rogers, B.Sc., B.C.E. Macedon, Wayne County, N. Y.
1903,	Feb.	Burrell, Ellen Louisa, B.A.; Professor of Pure Mathematics and Head of the Department, Wellesley College, Wellesley, Mass.
1904,	Oct.	Bussey, William Henry, M.A., Ph.D. (Chicago); Assistant Professor of Mathematics, University of Minnesota, Minneapolis, Minn.
1891,	Apr.	Byerly, William Elwood, M.A., Ph.D. (Harvard); Editor of the *Annals of Mathematics;* Perkins Professor of Mathematics, Harvard University, Cambridge, Mass. *39 Hammond Street.*
1891,	June	Cain, William, C.E., M.A.; Professor of Mathematics, University of North Carolina, Chapel Hill, N. C.
1905,	Feb.	Cairns, William DeWeese, M.A., Ph.D. (Göttingen); Associate Professor of Mathematics, Oberlin College, Oberlin, Ohio. *258 East College Street.*
1899,	Apr.	Cajori, Florian, M.Sc., Ph.D.; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Professor of Mathematics, Colorado College, Colorado Springs, Colo. *1119 Wood Avenue.*
1907,	Dec.	Camp, Burton Howard, M.A., Instructor in Mathematics, Wesleyan University, Middletown, Conn. *Brainerd Avenue.*
1900,	Dec.	Campbell, Donald Francis, Ph.D. (Harvard); Professor of Mathematics, Armour Institute of Technology, Chicago, Ill.
1897,	Oct.	Capron, Paul, M.A.; Instructor in Mathematics, Williams College, Williamstown, Mass.
1906,	Apr.	Carmichael, Robert Daniel, B.A.; Member of the Circolo Matematico di Palermo; Professor of Mathematics, Alabama Presbyterian College for Men, Anniston, Alabama.
1906,	Oct.	Carpenter, Allen Fuller, B.A.; Professor of Mathematics, Hastings College, Hastings, Neb. *233 East 7th Street.*

Date of Admission.		
1907,	Dec.	CARRUTH, WILLIAM MASSEY, B.A.; Assistant Professor of Mathematics, Hamilton College, Clinton, N. Y. *P. O. Box 95.*
1906,	Feb.	CARTER, BENJAMIN EDWARD, M.A.; Instructor in Mathematics, Massachusetts Institute of Technology, Boston, Mass.
1905,	Dec.	CARVER, WALTER BUCKINGHAM, Ph.B., Ph.D. (Johns Hopkins); Instructor in Mathematics, Cornell University, Ithaca, N. Y. *404 Stewart Avenue,*
1896,	Apr.	CHACE, ARNOLD BUFFUM, M.A., D.Sc. (Brown). Providence, R. I. *324 Angell Street.*
1895,	Nov.	CHESSIN, ALEXANDER S., M.A., C.E., Ph.D.; Professor of Mathematics, Washington University, St. Louis, Mo.
1895,	Nov.	CHITTENDEN, J. BRACE, B.Sc., M.A., Ph.D. (Königsberg); Professor of Mathematics, Brooklyn Polytechnic Institute, Brooklyn, N. Y.
1891,	Apr.	CLARK, JOHN EMORY, M.A.; Emeritus Professor of Mathematics, Yale University, New Haven, Conn. *34 South Park Terrace,* Longmeadow, Mass.
1900,	Dec.	CLARKE, JOHN EASTMAN, B.A., Ph.D. (Boston); Principal of the Gilbert School, Winsted, Conn.
1907,	Dec.	CLEMENTS, GUY ROGER, M.A.; Instructor in Mathematics, Williams College, Williamstown, Mass.
1896,	Sept.	CLUTZ, FRANK HOLLINGER, B.A., Ph.D. (Johns Hopkins); Civil Engineer, Nelson Construction Company, Chambersburg, Pa. *Montgomery Avenue.*
1906,	Feb.	COAR, HENRY LIVINGSTON, M.A., Ph.D. (Illinois); Associate Professor of Mathematics, Marietta College, Marietta, Ohio. *528 Fourth Street.*
1907,	Apr.	COBB, HERBERT EDGAR, M.A.; Professor and Head of the Department of Mathematics, Lewis Institute, Chicago, Ill.
1902,	Dec.	COBLE, ARTHUR B., M.A., Ph.D. (Johns Hopkins); Associate in Mathematics, Johns Hopkins University, Baltimore, Md.
1905,	Dec.	CODDINGTON, EMILY, M.A., Ph.D. (Columbia). *24 West 58th Street,* New York, N. Y.
1893,	Feb.	COHEN, ABRAHAM, B.A., Ph.D. (Johns Hopkins); Co-editor of the *American Journal of Mathematics;* Associate in Mathematics, Johns Hopkins University, Baltimore, Md.

Date of Admission.		
1891,	Apr.	*Cole, Frank Nelson, B.A., Ph.D. (Harvard); Editor of the *Bulletin of the American Mathematical Society;* Professor of Mathematics, Columbia University, New York, N. Y.
1899,	Dec.	Collins, Joseph Victor, B.Ph., Ph.D.; Teacher of Mathematics, State Normal School, Stevens Point, Wis. *217 Division Street.*
1906,	Sept.	Colpitts, Elmer Clifford, B.A., Ph.D. (Cornell); Professor of Mathematics and Physics, College of Emporia, Emporia, Kan. *912 Commercial Street.*
1907,	Dec.	Colpitts, Julia Trueman, M.A.; Assistant Professor of Mathematics, Iowa State College, Ames, Ia.
1903,	Aug.	Comstock, Clarence Elmer, M.A.; Assistant Professor of Mathematics and Head of the Department, Bradley Polytechnic Institute, Peoria, Ill.
1898,	Feb.	Comstock, Elting Houghtaling, M.Sc.; Instructor in Mathematics, School of Mines, University of Minnesota, Minneapolis, Minn, *1530 Como Avenue, S. E.*
1892,	Oct.	Conant, Levi Leonard, M.A., Ph.D.; Professor of Mathematics, Worcester Polytechnic Institute, Worcester, Mass.
1906,	Sept.	Constantius, Brother, M.A., Ph.D. (St. Louis), LL.D.; Member of the Circolo Matematico di Palermo; Secretary of the St. Louis District and Official Examiner. La Salle Institute, Glencoe, Mo.
1904,	Sept.	Converse, Henry A., B.A., Ph.D. (Johns Hopkins); Dean of the Faculty and Professor of Mathematics and Physics, Davis and Elkins College, Elkins, W. Va.
1900,	June	Coolidge, Julian Lowell, B.A., B.Sc., Ph.D. (Bonn); Instructor in Mathematics, Harvard University, Cambridge, Mass. *7 Fayerweather Street.*
1907,	Apr.	Corey, Samuel Arthur, Member of the Circolo Matematico di Palermo. Treasurer of the Wapello Coal Company, Hiteman, Ia.
1902,	Dec.	Cornish, William Aaron, B.A.; Instructor in Mathematics, State Normal School, Cortland, N. Y. *2 Stewart Place.*
1903,	Feb.	Cowley, Elizabeth Buchanan, M.A.; Member of the Circolo Matematico di Palermo; Instructor in Mathematics, Vassar College, Poughkeepsie, N. Y.
1900,	Dec.	Crathorne, Arthur R., B.A., Ph.D. (Göttingen); Member of the Deutsche Mathematiker-Vereinigung; Instructor in Mathematics, University of Illinois, Champaign, Ill. *1113 South Fourth Street.*

Date of Admission.		
1891,	Apr.	CRAWLEY, EDWIN SCHOFIELD, B.Sc., Ph.D. (Pennsylvania); Member of the Deutsche Mathematiker-Vereinigung; Thomas A. Scott Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa.
1903,	Oct.	CUMMINGS, LOUISE DUFFIELD, M.A.; Instructor in Mathematics, Vassar College, Poughkeepsie, N. Y.
1905,	Oct.	*CUNNINGHAM, ALLAN JOSEPH CHAMPNEYS, Lieutenant Colonel R. E., retired; Member of the London Mathematical Society; Fellow of King's College, London. *20 Essex Villas, Kensington*, London, W., England.
1891,	Dec.	CUNNINGHAM, SUSAN J., Emeritus Professor of Mathematics and Astronomy, Swarthmore College, Swarthmore, Pa. *3308 Arch Street, Philadelphia, Pa.*
1900,	Dec.	CURJEL, HARALD WORTHINGTON, M.A.; F.I.A.; Member of the London Mathematical Society; La Mexicana Compañia de Seguros sobre la Vida, Mexico, D. F., Mexico. *Apartado 651.*
1904,	Oct.	CURTIS, ARTHUR MILLS, B.Sc.; Instructor in Mathematics, State Normal and Training School, Oneonta, N. Y.
1902,	Feb.	CURTISS, DAVID RAYMOND, M.A., Ph.D. (Harvard); Member of the Société Mathématique de France; Associate Professor of Mathematics, Northwestern University, Evanston, Ill. *711 Emerson Street.*
1906,	Oct.	DADOURIAN, HAROUTUNE MÜGURDICH, M.A., Ph.D. (Yale); Instructor in Physics, Sheffield Scientific School, Yale University, New Haven, Conn. *299 York Street.*
1900,	Oct.	DAVIS, CHARLES HENRY. South Yarmouth, Mass.
1891,	Apr.	DAVIS, ELLERY WILLIAMS, B.Sc., Ph.D. (Johns Hopkins); Head Professor of Mathematics and Dean of the College of Literature, Science and the Arts, University of Nebraska, Lincoln, Neb.
1903,	Aug.	*DAVIS, HARVEY NATHANIEL, Ph.D.; Instructor in Physics and in Mathematics, Harvard University, Cambridge, Mass. *71 Perkins Hall.*
1891,	Apr.	DAVIS, NATHANIEL FRENCH, M.A., LL.D.; Professor of Pure Mathematics, Brown University, Providence, R. I. *159 Brown Street.*
1905,	Feb.	DAVISSON, SCHUYLER COLFAX, M.A., Sc.D.; Junior Professor of Mathematics, Indiana University, Bloomington, Ind. *515 East Third Street.*

Date of Admission.		
1904,	Oct.	DEAN, GEORGE REINALD, B.Sc., C.E.; Professor of Mathematics, School of Mines, University of Missouri, Rolla, Mo.
1905,	Oct.	DECHERD, MARY ELIZABETH, M.A.; Tutor in Mathematics, University of Texas, Austin, Tex. *2313 Nueces Street.*
1903,	Feb.	DE COU, EDGAR EZEKIEL, M.Sc.; Assistant Professor of Mathematics, University of Oregon, Eugene, Ore. *719 Mill Street.*
1900,	Dec.	DEFOE, LUTHER MARION, Member of the London Mathematical Society; Professor of Mechanics, University of Missouri, Columbia, Mo.
1903,	Dec.	DEIMEL, RICHARD FRANCIS, M.A.; Member of the Circolo Matematico di Palermo; Instructor in Mathematics and Mechanics, Stevens Institute, Hoboken, N. J. *146 Berkeley Place, Brooklyn, N. Y.*
1891,	May	DELONG, IRA MITCHELL, M.A.; Professor of Mathematics, University of Colorado, Boulder, Colo. *1341 Broadway.*
1895,	Jan.	DELURY, ALFRED TENNYSON, M.A.; Associate Professor of Mathematics, University of Toronto, Toronto, Canada.
1892,	Jan.	*DENNETT, WILLIAM SAWYER, B.A., M.D. *8 East 49th Street,* New York, N. Y.
1896,	Nov.	DICKSON, LEONARD EUGENE, B.Sc., M.A., Ph.D. (Chicago); Member of the London Mathematical Society; Associate Editor of the *Transactions of the American Mathematical Society;* Associate Editor of the *American Mathematical Monthly;* Assistant Professor of Mathematics, University of Chicago, Chicago, Ill.
1904,	Apr.	DIMICK, CHESTER EDWARD, B.A.; Instructor of Cadets, U. S. Revenue Cutter Service, Arundel Cove, South Baltimore, Md.
1904,	Sept.	DODD, EDWARD LEWIS, M.A., Ph.D. (Yale); Instructor in Mathematics, University of Texas, Austin, Texas. *Box 115, University Station.*
1905,	Dec.	DOHMEN, FRANZ JOSEPH, B.Lit., Ph.D. (Greifswald); Member of the Deutsche Mathematiker-Vereinigung. *10 Sacramento Street,* Cambridge, Mass.
1897,	Apr.	DOWLING, LINNÆUS WAYLAND, Ph.D. (Clark); Assistant Professor of Mathematics, University of Wisconsin, Madison, Wis. *234 Breese Terrace.*

Date of Admission.		
1901,	Feb.	DOWNEY, JOHN F., C.E., M.Sc., M.A.; Professor of Mathematics and Dean of the College of Science, Literature and the Arts, University of Minnesota, Minneapolis, Minn.
1907,	Sept.	DRESDEN, ARNOLD, M.Sc.; Instructor in Mathematics, University High School, Chicago, Ill. *5607 Washington Avenue.*
1906,	Sept.	DROKE, GEORGE WESLEY, M.A.; Professor of Mathematics and Astronomy, University of Arkansas, Fayetteville, Ark. *103 Hill Street.*
1902,	Apr.	DUKE, FRANK WILLIAMSON, B.A.; Superintendent of the Virginia Mechanics' Institute, Richmond, Va.
1902,	Oct.	DUNKEL, OTTO, M.E., M.A., Ph.D. (Harvard); Instructor in Mathematics, University of Missouri, Columbia, Mo. *403 Matthews Street.*
1891,	Apr.	DURELL, FLETCHER, B.A., Ph.D.; Master in Mathematics, Lawrenceville School, Lawrenceville, N. J.
1891,	Apr.	DURFEE, WILLIAM PITT, B.A., Ph.D. (Johns Hopkins); Professor of Mathematics and Dean of the Faculty, Hobart College, Geneva, N. Y. *639 Main Street.*
1904,	Feb.	DUVAL, EDMUND PENDLETON RANDOLPH, B.Sc., M.A.; Instructor in Mathematics, University of Wisconsin, Madison, Wis. *214 North Brooks Street.*
1905,	Sept.	ECHOLS, CHARLES PATTON, Graduate of the U. S. Military Academy; Lieutenant-Colonel, U. S. A.; Professor of Mathematics, U. S. Military Academy, West Point, N. Y.
1891,	Apr.	ECHOLS, WILLIAM HOLDING, B.Sc.; Professor of Mathematics, University of Virginia, Charlottesville, Va.
1891,	Apr.	EDDY, HENRY TURNER, C.E., M.A., Ph.D., LL.D.; Professor of Engineering and Mechanics and Dean of the Graduate School, University of Minnesota, Minneapolis, Minn. *916 Sixth Street, S. E.*
1896,	Dec.	EDMONDSON, THOMAS WILLIAM, B.A., Ph.D. (Clark); Professor of Mathematics, New York University, New York, N. Y. *University Heights.*
1902,	Sept.	EDWARDS, GEORGE CUNNINGHAM, B.Ph.; Associate Professor of Mathematics, University of California, Berkeley, Cal.
1894,	June	EIMBECK, WILLIAM; Assistant in the Coast and Geodetic Survey, Washington, D. C.

Date of Admission.

1900, Dec. *EISENHART, LUTHER PFAHLER, B.A., Ph.D. (Johns Hopkins); Assistant Professor of Mathematics, Princeton University, Princeton, N. J. *63 Little Hall.*

1898, Feb. *ELLIOTT, EDWIN BAILEY, M.A.; F.R.S.; Member of the London Mathematical Society; F.R.A.S.; Waynflete Professor of Pure Mathematics and Fellow of Magdalen College, Oxford, England. *4 Bardwell Road.*

1896, Nov. EMCH, ARNOLD, M.Sc., Ph.D. (Kansas); Member of the Circolo Matematico di Palermo; Member of the Schweizerische Naturforschende Gesellschaft; Professor of Mathematics, Cantonal College, Solothurn, Switzerland.

1898, Apr. ENGBERG, CARL CHRISTIAN, B.Sc., M.A., Ph.D. (Nebraska); Assistant Professor of Mathematics, University of Nebraska, Lincoln, Neb.

1892, Mar. ENGLER, EDMUND ARTHUR, M.A., Ph.D., LL.D.; President of the Worcester Polytechnic Institute, Worcester, Mass. *11 Boynton Street.*

1903, Oct. ENGLISH, HARRY, B.A., LL.M.; Director of Mathematics, Washington High Schools, Washington, D. C. *2907 P Street, N. W.*

1904, Sept. EPSTEEN, SAUL, B.Sc., Ph.D. (Zurich); Member of the Deutsche Mathematiker-Vereinigung; Associate Editor of *School Science and Mathematics;* Assistant Professor of Mathematics, University of Colorado, Boulder, Colo. *1149 Twelfth Street.*

1898, Oct. *ESCOTT, EDWARD BRIND, M.Sc.; Instructor in Mathematics, University of Michigan, Ann Arbor, Mich. *1825 Hill Street.*

1901, Dec. ESTY, THOMAS CUSHING, M.A.; Professor of Mathematics, Amherst College, Amherst, Mass.

1891, May ESTY, WILLIAM COLE, LL.D.; Emeritus Professor of Mathematics and Astronomy, Amherst College, Amherst, Mass.

1905, Sept. EVANS, HENRY BROWN, M.E., Ph.D. (Pennsylvania); Member of the Astronomical and Astrophysical Society of America; Assistant Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa. *College Hall.*

1899, Feb. FAUGHT, JOHN BROOKIE, M.A., Ph.D.; Professor of Mathematics, Northern State Normal School, Marquette, Mich. *1312 Presque Isle Avenue.*

Date of Admission.

1901, Feb. *Ferry, Frederick Carlos, M.A., Ph.D. (Clark); Professor of Mathematics and Dean, Williams College, Williamstown, Mass.

1907, Apr. Field, Floyd, M.A.; Junior Professor of Mathematics, Georgia School of Technology, Atlanta, Ga. *341 Fraser Street.*

1900, June Field, Peter, M.Sc., Ph.D. (Cornell); Assistant Professor of Mathematics, University of Michigan, Ann Arbor, Mich. *935 Greenwood Avenue.*

1891, May Fields, John Charles, Ph.D. (Johns Hopkins); Member of the Société Mathématique de France; Associate Professor of Mathematics, University of Toronto, Toronto, Canada.

1901, Oct. Findlay, William, M.A., Ph.D. (Chicago); Professor of Mathematics, McMaster University, Toronto, Canada.

1891, May Fine, Henry Burchard, M.A., Ph.D. (Leipzig); Professor of Mathematics, Princeton University, Princeton, N. J.

1891, June Finkel, Benjamin Franklin, Ph.D.; Member of the London Mathematical Society; Member of the Circolo Matematico di Palermo; Editor of the *American Mathematical Monthly;* Professor of Mathematics and Physics, Drury College, Springfield, Mo. *1227 Clay Street.*

1899, Feb. Fishburne, Edward Bell, Jr., B.Sc., M.A.; President of the Hoge Memorial Military Academy, Blackstone, Va.

1891, Oct. Fisher, George Egbert, M.A., Ph.D.; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Assistant Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa.

1895, Jan. Fisher, Irving, B.A., Ph.D. (Yale); Professor of Political Economy, Yale University, New Haven, Conn. *460 Prospect Street.*

1888, Nov. *Fiske, Thomas Scott, M.A., Ph.D. (Columbia); Ex-President; Member of the London Mathematical Society; Professor of Mathematics, Columbia University, New York, N. Y.

1897, Feb. Fitch, Annie Louise Mackinnon (Mrs. Edward), M.Sc., Ph.D. Clinton, N. Y.

1901, Oct. Fite, William Benjamin, Ph.D. (Cornell); Assistant Professor of Mathematics, Cornell University, Ithaca, N. Y. *127 Eddy Street.*

Date of Admission.		
1904,	Oct.	FLEET, ROBERT RYLAND, M.A., Ph.D. (Heidelberg); Professor of Mathematics, William Jewell College, Liberty, Mo.
1894,	Oct.	FLOWERS, ROBERT LEE, Graduate of the U. S. Naval Academy; Professor of Mathematics, Trinity College, Durham, N. C.
1907,	Feb.	FOCKE, THEODORE M., B.Sc., Ph.D. (Göttingen); Associate Professor of Mathematics, Case School of Applied Science, Cleveland, Ohio.
1903,	Dec.	FORBES, CHARLES SAVAGE, M.A., Ph.D. (Columbia); Superintendent of the Liability and Statistical Department, Casualty Company of America, New York, N. Y. *201 East 30th Street.*
1900,	Apr.	FORD, ROBERT DALE, M.Sc.; Professor of Mathematics, St. Lawrence University, Canton, N. Y.
1899,	Aug.	*FORD, WALTER B., M.A., Ph.D. (Harvard); Member of the Société Mathématique de France; Member of the Circolo Matematico di Palermo; Editor of the *Bulletin of the American Mathematical Society;* Assistant Professor of Mathematics, University of Michigan, Ann Arbor, Mich. *905 Forest Avenue.*
1899,	Dec.	FORSYTH, ANDREW RUSSELL, Sc.D. (Cambridge, Dublin, Victoria, Oxford, Liverpool), LL.D. (Glasgow, Aberdeen); Math.D. (Christiania); F.R.S.; Hon. F.R.S.E.; Foreign Member of the National Academy of Sciences; Corresponding Associate of the Reale Istituto Lombardo; Member and Ex-President of the London Mathematical Society; Honorary Member of the Manchester Literary and Philosophical Society; Member of the Cambridge Philosophical Society; F.R.A.S.; Sadlerian Professor of Pure Mathematics and Fellow of Trinity College, Cambridge University, Cambridge, England.
1893,	Dec.	FRANKLAND, FREDERICK WILLIAM, F.I.A.; Member of the Actuarial Society of America. Foxton, New Zealand.
1892,	Dec.	FRANKLIN, FABIAN, B.Ph., Ph.D. (Johns Hopkins), LL.D.; Associate Fellow of the American Academy of Arts and Sciences. *103 West Monument Street,* Baltimore, Md.
1903,	Feb.	FRAZER, FRANK DEAN, B.Sc., M.A. *2321 Osgood Street,* Allegheny, Pa.

Date of Admission.		
1905,	Feb.	FRENCH, JOHN SHAW, B.A., Ph.D. (Clark); Member of the Circolo Matematico di Palermo; Professor of Mathematics, Jacob Tome Institute, Port Deposit, Md.
1895,	Nov.	FRIZELL, ARTHUR BOWES, M.A.; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo. *Hainholzweg 46, Göttingen, Germany.*
1892,	Oct.	GABLE, GEORGE DANIEL, M.A., Ph.D.; Johnson Professor of Mathematics, University of Wooster, Wooster, Ohio.
1899,	Oct.	GALE, ARTHUR SULLIVAN, B.A., Ph.D. (Yale); Member of the Deutsche Mathematiker-Vereinigung; Fayerweather Professor of Mathematics, University of Rochester, Rochester, N. Y. *35 Vick Park, Avenue B.*
1904,	Dec.	GAVETT, GEORGE IRVING, B.Sc.; Instructor in Mathematics, University of Washington, Seattle, Washington. *5525 Sixteenth Avenue, N. E.*
1903,	Dec.	GECKELER, OTTO THEODORE, B.A.; Professor of Mathematics, Georgia School of Technology, Atlanta, Ga.
1894,	Feb.	GENTRY, RUTH, Ph.B., Ph.D. (Bryn Mawr); Stilesville, Ind.
1897,	Dec.	GERMANN, GEORGE B., B.A., Ph.D. (Columbia); Principal of Public School No. 130, *Ocean Parkway and Fort Hamilton Avenue,* Brooklyn, N. Y.
1901,	Feb.	*GERRANS, HENRY TRESAWNA, M.A.; Member of the London Mathematical Society; Member of the Edinburgh Mathematical Society; Member of the Société Mathématique de France; Member of the Circolo Matematico di Palermo; Fellow and Tutor of Worcester College, Oxford, England.
1903,	Oct.	GIBSON, GEORGE ALEXANDER, M.A., LL.D.; Fellow of the Royal Society of Edinburgh; Honorary Member of the Edinburgh Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics in the Glasgow and West of Scotland Technical College, Glasgow, Scotland. *8 Sandyford Place, W.*
1907,	Feb.	GILLESPIE, DAVID CLINTON, M.A., Ph.D. (Göttingen); Instructor in Mathematics, Cornell University, Ithaca, N. Y. *120 Oak Avenue.*
1904,	Apr.	GILLESPIE, WILLIAM, B.A., Ph.D. (Chicago); Assistant Professor of Mathematics, Princeton University, Princeton, N. J. *10 Nassau Street.*

Date of Admission.		
1906,	Sept.	GINNINGS, ROBERT MEADE, B.A. *689 East 57th Street,* Chicago, Ill.
1892,	June	GLAISHER, JAMES WHITBREAD LEE, M.A., Sc.D.; F.R.S.; F.R.A.S.; Editor of the *Messenger of Mathematics* and of the *Quarterly Journal of Pure and Applied Mathematics;* Fellow of Trinity College, Cambridge, England.
1891,	May	GLASHAN, JOHN CADENHEAD, LL.D.; Fellow of the Royal Society of Canada; Inspector of Public Schools, School Inspector's Office, Ottawa, Canada.
1906,	Sept.	GLAZIER, HARRIET ENDORA, B.A.; Professor of Mathematics, The Western College for Women, Oxford, Ohio.
1905,	Dec.	GLENN, OLIVER EDMUNDS, M.A., Ph.D. (Pennsylvania); Instructor in Mathematics, University of Pennsylvania, Philadelphia, Pa. *College Hall.*
1896,	Nov.	GLOVER, JAMES WATERMAN, M.A., Ph.D. (Harvard); Member of the Deutscher Verein für Versicherungs-Wissenschaft; Junior Professor of Mathematics and Insurance, University of Michigan, Ann Arbor, Mich. *1312 Geddes Avenue.*
1904,	Feb.	GOODENOUGH, GEORGE ALFRED, M.E.; Associate Professor of Mechanical Engineering, University of Illinois, Urbana, Ill. *607 West Elm Street.*
1897,	Oct.	GORE, JOHN KINSEY, M.A.; Fellow of the Actuarial Society of America; Actuary of the Prudential Insurance Company, Newark, N. J.
1902,	Feb.	GOULD, ALICE BACHE, B.A. *535 Beacon Street,* Boston, Mass.
1903,	Oct.	GOULD, MARY FRANCES, B.A.; Teacher of Mathematics, Dedham High School, Dedham, Mass.
1904,	Dec.	GRABER, MYRON EARLE, M.A.; Member of the Circolo Matematico di Palermo; Professor of Physics, Heidelberg University, Tiffin, O. *40 Circular Street.*
1905,	Apr.	GRACE, JOHN HILTON, M.A.; Honorary Secretary of the London Mathematical Society; Lecturer in Mathematics, Peterhouse and Pembroke College, Cambridge University, Cambridge, England.
1903,	Aug.	GRAHAM, WILLIAM JOSEPH, B.A.; Fellow of the Actuarial Society of America; Consulting Actuary of the American School of Insurance; Vice-President and Actuary of the Northwestern National Life Insurance Company, Minneapolis, Minn.

Date of Admission.		
1904,	Oct.	GRANT, ELMER DANIEL, M.A.; Assistant Professor of Mathematics and Physics, Michigan College of Mines, Houghton, Mich.
1897,	May	GRANVILLE, WILLIAM ANTHONY, B.Ph., Ph.D. (Yale); Instructor in Mathematics, Yale University, New Haven, Conn. *118 Howe Street.*
1906,	Oct.	GRAVATT, THOMAS E., B.Sc.; Instructor in Mathematics, Pennsylvania State College, State College, Pa.
1891,	June	GREEN, RUFUS LOT, B.Sc., M.A.; Professor of Mathematics, Stanford University, Cal.
1897,	Oct.	*GREENHILL, ALFRED GEORGE, M.A.; F.R.S.; Member of the London Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, Ordnance College, Woolwich, England.
1900,	June	GREENSTREET, WILLIAM JOHN, M.A.; Member of the London Mathematical Society; Member of the Edinburgh Mathematical Society; F.R.A.S.; Editor of the *Mathematical Gazette;* Headmaster of the Marling School, Stroud, Gloucestershire, England.
1901,	Oct.	GREENWOOD, GEORGE WILLIAM, M.A. Roanoke College, Salem, Va.
1906,	Apr.	GRIFFIN, FRANK LOXLEY, B.Sc., M.Sc., Ph.D. (Chicago); Instructor in Mathematics, Williams College, Williamstown, Mass.
1893,	Dec.	GRIFFITHS, IDA, B.A. *95 Garden Street,* Poughkeepsie, N. Y.
1899,	Oct.	*GROAT, BENJAMIN FELAND, B.Sc.; Professor of Mechanics and Mathematics, School of Mines, University of Minnesota, Minneapolis, Minn.
1907,	Feb.	GROVE, CHARLES CLAYTON, M.A., Ph.D. (Johns Hopkins); Professor of Mathematics and Astronomy, Roanoke College, Salem, Va.
1905,	Sept.	*GUCCIA, GIOVANNI BATTISTA, NOB. DEI MARCHESI DI GANZARIA, Math.D. (Rome); Member of the Royal Academy of Sciences, Letters and Fine Arts of Palermo; Member of the Kaiserliche Leopoldinisch-Carolinische Deutsche Akademie der Naturforscher; Corresponding Member of the Royal Society of Liége; Founder of the Circolo Matematico di Palermo; Member of the Société Mathématique de France; Member of the Deutsche Mathematiker-Vereinigung; Corresponding Member of the Société Philomathique de

Date of Admission.

Paris; Member of the International Commission of the *Répertoire Bibliographique des Sciences Mathématiques;* Founder and Director of the *Rendiconti del Circolo Matematico di Palermo;* Professor of Higher Geometry, University of Palermo, Palermo, Italy. *Via Ruggiero Settimo, 30.*

1894, June *GUMMERE, HENRY VOLKMAR, B.Sc., M.A.; Member of the Circolo Matematico di Palermo; Professor of Mathematics, Drexel Institute, Philadelphia, Pa. *229 South 44th Street.*

1902, Feb. GUNDERSEN, CARL, M.A., Ph.D. (Columbia); Instructor in Mathematics, Michigan Agricultural College, East Lansing, Mich.

1906, Sept. GUNTHER, CHARLES OTTO, M.E.; Associate Member of the American Society of Mechanical Engineers; Member of the Circolo Matematico di Palermo; Assistant Professor of Mathematics and Mechanics, Stevens Institute of Technology, Hoboken, N. J.

1902, Dec. HALL, ARTHUR GRAHAM, B.Sc., Ph.D. (Leipzig); Professor of Mathematics, Miami University, Oxford, Ohio.

1894, Oct. HALLETT, GEORGE HERVEY, M.A., Ph.D.; Member of the London Mathematical Society; Assistant Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa. *College Hall.*

1891, May HALSTED, GEORGE BRUCE, M.A., Ph.D. (Johns Hopkins); Member of the Société Mathématique de France; Member of the London Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Member of the Mathematical Association; F.R.A.S.; Professor of Mathematics, State Normal School of Colorado, Greeley, Colo.

1901, Oct. *HANAWALT, FRANCIS WAYLAND, M.A.; Professor of Mathematics and Astronomy, Albion College, Albion, Mich. *201 North Ingham Street.*

1902, Dec. HANCOCK, EDWARD LEE, M.Sc.; Assistant Professor of Applied Mechanics, Purdue University, Lafayette, Ind. *532 South Ninth Street.*

1895, Apr. HANCOCK, HARRIS, B.A., Ph.D. (Berlin), D.Sc. (Paris); Member of the London Mathematical Society; Member of the Société Mathématique de France; Member of the Deutsche Mathematiker-Vereinigung; Member

Date of Admission.

of the Circolo Matematico di Palermo; Professor of Mathematics, University of Cincinnati, Cincinnati, Ohio. *Auburn Hotel, Mount Auburn.*

1900, Dec. HANNA, ULYSSES S., M.A., Ph.D. (Pennsylvania); Assistant Professor of Mathematics, Indiana University, Bloomington, Ind. *828 Atwater Avenue.*

1894, Feb. *HARDCASTLE, FRANCES, Member of the London Mathematical Society. *25 Boundary Road,* St. John's Wood, London, N. W., England.

1902, Apr. HARDY, JAMES GRAHAM, M.A., Ph.D. (Johns Hopkins); Associate Professor of Mathematics, Williams College, Williamstown, Mass.

1891, May *HARKNESS, JAMES, M.A.; Member of the London Mathematical Society; Professor of Mathematics, McGill University, Montreal, Canada.

1891, Apr. HART, JAMES NORRIS, C.E., M.Sc.; Professor of Mathematics and Astronomy, University of Maine, Orono, Me.

1905, Oct. HART, WALTER WILSON, B.A.; Teacher of Mathematics, Shortridge High School, Indianapolis, Ind.

1907, Apr. HARTWELL, GEORGE WILBER, M.A.; Lecturer in Mathematics, Columbia University. *312 Livingston Hall.*

1904, Feb. HARVEY, HENRY CLAY, M.Sc.; Professor of Mathematics, State Normal School, Kirksville, Mo. *1315 East Normal Avenue.*

1907, Oct. HASEMAN, CHARLES, M.A., Ph.D. (Göttingen); Instructor in Mathematics, Indiana University, Bloomington, Ind.

1899, Dec. HASKELL, MELLEN WOODMAN, M.A., Ph.D. (Göttingen); Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Professor of Mathematics, University of California, Berkeley, Cal. *P. O. Box 3.*

1903, Feb. HASKINS, CHARLES NELSON, B.Sc., Ph.D. (Harvard); Assistant Professor of Mathematics, University of Illinois, Urbana, Ill. *907 West California Street.*

1891, May HATHAWAY, ARTHUR STAFFORD, B.Sc., Professor of Mathematics, Rose Polytechnic Institute, Terre Haute, Ind. *2206 North Tenth Street.*

1901, Feb. HAVILAND, EDWIN, JR., B.Sc., M.A. Acting Assistant Professor of Mathematics, University of Washington, Seattle, Washington.

Date of Admission.		
1898,	Aug.	HAWKES, HERBERT EDWIN, B.A., Ph.D. (Yale); Member of the Deutsche Mathematiker-Vereinigung; Assistant Professor of Mathematics, Yale University, New Haven, Conn. *45 Huntington Street.*
1906,	Oct.	HAWKESWORTH, REV. ALAN SPENCER; Member of the Circolo Matematico di Palermo. Sheridanville, Pittsburgh, Pa.
1894,	Aug.	HAY, GUSTAVUS, B.A., M.D. *1 Hathaway Street,* Jamaica Plain, Mass.
1905,	Dec.	HAYNES, ELI STUART, M.A.; Assistant in the Laws Observatory, University of Missouri, Columbia, Mo. *310 Hitt Street.*
1901,	Aug.	HEDRICK, EARLE RAYMOND, M.A., Ph.D. (Göttingen); Member of the Société Mathématique de France; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Professor and Head of the Department of Mathematics, University of Missouri, Columbia, Mo. *302 South Ninth Street.*
1900,	Dec.	HEWES, LAURENCE ILSLEY, B.Sc., Ph.D. (Yale); Instructor in Mathematics, Yale University, New Haven, Conn. *Hamden, Conn.*
1904,	Oct.	HIGDON, JOHN E., B.A.; Assistant Actuary of The State Life Insurance Company, Indianapolis, Ind. *State Life Building.*
1906.	Oct.	HIGLEY, HOMER RANSOM, M.Sc.; Instructor in Mathematics, Pennsylvania State College, State College, Pa.
1907,	Sept.	HILDEBRANDT, THEOPHIL HENRY, B.A., M.Sc.; Fellow in Mathematics, University of Chicago, Chicago, Ill.
1892,	Dec.	HILL, GEORGE WILLIAM, Ph.D., Sc.D., LL.D.; EX-PRESIDENT; Member of the National Academy of Sciences; Corresponding Member of the Paris Academy of Sciences; Foreign Member of the Royal Society of London; Foreign Associate of the Royal Astronomical Society; Honorary Member of the London Mathematical Society. West Nyack, N. Y.
1905,	Sept.	HILTEBEITEL, ADAM MILLER, M.A., Ph.D. (Princeton); Head of the Department of Mathematics, Peekskill Military Academy, Peekskill, N. Y.
1898,	Dec.	HIMOWICH, ADOLPH A., M.Sc., M.D. *130 Henry Street,* New York, N. Y.
1894,	Mar.	HITCHCOCK, FANNY R. M., Ph.D. *4038 Walnut Street,* Philadelphia, Pa.

Date of Admission.

1905, Feb. HODGE, FREDERICK HUMBERT, M.A. *5755 Drexel Avenue*, Chicago, Ill.

1902, Apr. HODGKINS, HOWARD LINCOLN, M.A., Ph.D. (George Washington); Professor and Head of the Department of Physics and Dean of the Washington College of Engineering, George Washington University, Washington, D. C.

1895, Feb. HOLGATE, THOMAS FRANKLIN, M.A., Ph.D. (Clark), LL.D.; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics and Dean of the College of Liberal Arts, Northwestern University, Evanston, Ill. *617 Library Street.*

1902, Dec. HOSKINS, LEANDER MILLER, C.E., M.Sc.; Professor of Applied Mathematics, Stanford University, Palo Alto, Cal. *365 Lincoln Avenue.*

1891, May HOWE, CHARLES SUMNER, Ph.D., Sc.D.; F.R.A.S.; Member of the Astronomical and Astrophysical Society of America; President of the Case School of Applied Science, Cleveland, Ohio.

1891, May HOWE, HERBERT ALONZO, M.A., Sc.D.; Member of the Astronomische Gesellschaft; Member of the Astronomical and Astrophysical Society of America; Director of the Chamberlin Observatory of the University of Denver, University Park, Col.

1891, May HULBURT, LORRAIN SHERMAN, B.A., Ph.D. (Johns Hopkins); Collegiate Professor of Mathematics, Johns Hopkins University, Baltimore, Md.

1904, Feb. HUN, JOHN GALE, Ph.D. (Johns Hopkins); Instructor in Mathematics, Princeton University, Princeton, N. J.

1901, Oct. HUNTINGTON, EDWARD VERMILYE, M.A., Ph.D. (Strassburg); Member of the Deutsche Mathematiker-Vereinigung; Editor of the *Annals of Mathematics;* Assistant Professor of Mathematics, Harvard University, Cambridge, Mass. *35 Fairfax Hall.*

1906, Sept. HURWITZ, WALLIE ABRAHAM, B.Sc., M.A. *12 Mellen Street*, Cambridge, Mass.

1891, Apr. HUSSEY, WILLIAM J., B.Sc.; Foreign Associate of the Royal Astronomical Society; Professor of Astronomy and Director of the Observatory, University of Michigan, Ann Arbor, Mich.

Date of Admission.		
1896,	Nov.	HUTCHINSON, JOHN IRWIN, B.A., Ph.D. (Chicago); Associate Editor of the *Transactions of the American Mathematical Society;* Assistant Professor of Mathematics, Cornell University, Ithaca, N. Y. *Cornell Heights.*
1891,	May	HYDE, EDWARD WYLLYS, C.E.; Actuary of the Columbia Life Insurance Company, Cincinnati, Ohio. *814 Lincoln Avenue, Station D.*
1904,	Apr.	INGOLD, LOUIS, M.A.; Instructor in Mathematics, University of Missouri, Columbia, Mo.
1907,	Dec.	IVEY, JOSEPH NETTLES, LL.B., M.A., Ph.D. (Berlin); Professor of Mathematics, Tulane University, New Orleans, La.
1901,	Dec.	JACKSON, LAMBERT LINCOLN, M.A., Ph.D.; Head of the Educational Department of D. Appleton and Company, New York, N. Y. *581 West 161st Street.*
1907,	Dec.	JACKSON, WILLIAM HARTAS, M.A.; Member of the London Mathematical Society; Associate Professor of Mathematics, Haverford College, Haverford, Pa.
1892,	Jan.	JACOBUS, DAVID S., M.E.; Advisory Engineer, The Babcock and Wilcox Company, New York, N. Y.; Special Lecturer in Experimental Engineering, Stevens Institute of Technology, Hoboken, N. J. *70 Summit Street,* Jersey City, N. J.
1888,	Nov.	JACOBY, HAROLD, Ph.D. (Columbia); Member of the Astronomische Gesellschaft; F.R.A.S.; Rutherford Professor of Astronomy, Columbia University, New York, N. Y. *333 West 76th Street.*
1906,	Sept.	JAMES, GEORGE OSCAR, Ph.D. (Johns Hopkins); Instructor in Mathematics and Astronomy, Washington University, St. Louis, Mo.
1905,	Dec.	JEANS, JAMES HOPWOOD, M.A., F.R.S.; Member of the London Mathematical Society; Professor of Applied Mathematics, Princeton, N. J.
1897,	Apr.	JOFFE, S. A., M.Sc.; Member of the Circolo Matematico di Palermo; Fellow of the Actuarial Society of America; The Mutual Life Insurance Company of New York. *55 Cedar Street,* New York, N. Y.
1906,	Sept.	JOHNSON, BENJAMIN FRANKLIN, M.A.; Professor of Mathematics, Missouri State Normal School, Cape Girardeau, Mo.

Date of Admission.		
1891,	Mar.	JOHNSON, WILLIAM WOOLSEY, M.A.; Member of the London Mathematical Society; Professor of Mathematics, U. S. Naval Academy, Annapolis, Md.
1907,	Apr.	JONES, CECIL CHARLES, M.A., Ph.D. (New Brunswick), LL.D. (Toronto); Chancellor of the University of New Brunswick, Fredericton, N. B., Canada.
1904,	Oct.	KARPINSKI, LOUIS CHARLES, B.A., Ph.D. (Strassburg); Member of the Deutsche Mathematiker-Vereinigung; Instructor in Mathematics, University of Michigan, Ann Arbor, Mich. *735 South 12th Street.*
1899,	Oct.	*KASNER, EDWARD, M.A., Ph.D. (Columbia); Associate Editor of the *Transactions of the American Mathematical Society;* Adjunct Professor of Mathematics, Columbia University, New York, N. Y. *22 West 119th Street.*
1903,	Oct.	KELLOGG, OLIVER DIMON, M.A., Ph.D. (Göttingen); Assistant Professor of Mathematics, University of Missouri, Columbia, Mo. *500 Turner Avenue.*
1891,	Dec.	KENNELLY, A. E., M.A., D.Sc.; F.R.A.S. Harvard University, Cambridge, Mass.
1900,	Dec.	KENYON, ALFRED MONROE, M.A.; Professor of Mathematics, Purdue University, Lafayette, Ind. *103 Waldron Street,* West Lafayette.
1897,	Aug.	KEPPEL, HERBERT G., B.A., Ph.D. (Clark); Member of the Amsterdam Mathematical Society; Instructor in Mathematics, Northwestern University, Evanston, Ill. *616 Foster Street.*
1892,	Oct.	KERR, WILLIAM JASPER, D.Sc.; President of the Agricultural College of Utah, Logan, Utah.
1897,	Aug.	KEYSER, CASSIUS JACKSON, B.Sc., M.A., Ph.D. (Columbia); Member of the Circolo Matematico di Palermo; American Editorial Representative of the *Hibbert Journal;* Editor for the Department of Pure Mathematics of the *Encyclopedia Americana;* Adrain Professor of Mathematics, Columbia University, New York, N. Y.
1907,	Sept.	KING, WILLIAM JOSEPH, M.A.; Instructor in Mathematics, U. S. Naval Academy, Annapolis, Md.
1906,	Oct.	KISELJAK, MARIO, M.A., Ph.D. (Vienna); Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Professor of Mathematics and Physics, State College, Sušak, Croatia. *Sušak near Fiume, Hungary.*

Date of Admission.		
1904,	Apr.	KNEPPER, MYRTLE, B.L., M.A.; Assistant in Mathematics, State Normal School, Cape Girardeau, Mo.
1891,	Dec.	KNISELY, ALEXANDER, B.Sc. Columbia City, Ind.
1903,	Apr.	KOCH, ERNEST HERMAN, JR., B.Sc.; Instructor in Mathematics, Pratt Institute, Brooklyn, N. Y. *421 Park Place.*
1907,	Dec.	KRATHWOHL, WILLIAM CHARLES, B.A.; Tutor in Mathematics, Columbia University, New York, N. Y.
1901,	Oct.	KUHN, HARRY WALDO, Ph.D. (Cornell); Associate Professor of Mathematics, Ohio State University, Columbus, Ohio. *316 West Ninth Avenue.*
1894,	Apr.	*LADUE, POMEROY, B.Sc. Michigan United Railways Company, Lansing, Mich.
1893,	Dec.	LAMBERT, PRESTON ALBERT, M.A.; Professor of Mathematics, Lehigh University, South Bethlehem, Pa. *215 South Center Street,* Bethlehem, Pa.
1906,	Feb.	LAMBERT, WALTER DAVIS, M.A. *3714 Locust Street,* Philadelphia, Pa.
1897,	Jan.	LANDIS, WILLIAM WEIDMAN, M.A., Sc.D.; Member of the Circolo Matematico di Palermo; Professor of Mathematics, Dickinson College, Carlisle, Pa.
1898,	Apr.	LANZA, GAETANO, B.Sc., C. and M.E.; Professor of Theoretical and Applied Mechanics, in charge of the Department of Mechanical Engineering, Massachusetts Institute of Technology, Boston, Mass.
1906,	Oct.	LASKER, EMANUEL, Ph.D. (Erlangen). *116 Nassau Street,* New York, N. Y.
1897,	May	LAVES, KURT, M.A., Ph.D. (Berlin); Member of the Astronomische Gesellschaft; Assistant Professor of Astronomy, University of Chicago, Chicago, Ill.
1889,	Dec.	LEGRAS, GUSTAVE, M.Sc.; Associate Professor of Mathematics, College of the City of New York. *St. Nicholas Terrace,* New York, N. Y.
1900,	Oct.	LEHMER, DERRICK NORMAN, M.A., Ph.D. (Chicago); Assistant Professor of Mathematics, University of California, Berkeley, Cal. *2736 Regent Street.*
1903,	Aug.	LENNES, NELS JOHANN, M.Sc.; Instructor in Mathematics, Massachusetts Institute of Technology, Boston, Mass.

Date of Admission.

1905, Apr. LEONARD, HEMAN BURR, B.Sc., Ph.D. (Colorado). University of Oregon, Eugene, Ore.

1904, Oct. LESTER, OLIVER CLARENCE, M.A., Ph.D. (Yale); Professor of Physics, University of Colorado, Boulder, Colo. *1121 Eleventh Street.*

1892, Feb. LEUSCHNER, ARMIN OTTO, B.A., Ph.D. (Berlin), Sc.D.; Member of the Astronomische Gesellschaft; F.R.A.S.; Professor of Astronomy and Director of the Students' Observatory, University of California, Berkeley, Cal. *1816 Scenic Avenue.*

1904, Sept. LEVI-CIVITA, TULLIO, Math.D. (Padua); Corresponding Member of the Reale Accademia dei Lincei; Corresponding Member of the Académie Impériale des Sciences de Saint-Pétersbourg; Foreign Member of the Kaiserliche Leopoldinisch-Carolinische Deutsche Akademie der Naturforscher; Corresponding Member of the Reale Istituto Veneto; Member of the Société Mathématique de France; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Professor of Theoretical Mechanics, University of Padua, Padua, Italy. *Via Altinate, 14.*

1894, June LING, GEORGE HERBERT, Ph.D. (Columbia); Instructor in Mathematics, Columbia University, New York, N. Y.

1907, Apr. LIPKE, JOSEPH, B.Sc., M.A.; Instructor in Mathematics, University of California, Berkeley, Cal.

1900, Dec. LITTLE, CHARLES NEWTON, B.A., Ph.D. (Yale); Professor of Civil Engineering, University of Idaho, Moscow, Id.

1900, June LOCKE, LESLIE LELAND, M.A. *404 Quincy Street,* Brooklyn, N. Y.

1906, Apr. LONGLEY, WILLIAM RAYMOND, M.Sc., Ph.D. (Chicago); Instructor in Mathematics, Yale University, New Haven, Conn. *121 Brownell Street.*

1901, Feb. LOVE, AUGUSTUS EDWARD HOUGH, M.A., D.Sc. (Oxford); F.R.S.; Honorary Secretary of the London Mathematical Society; Sedleian Professor of Natural Philosophy, Oxford University, Oxford, England. *34 St. Margaret's Road.*

Date of Admission.

1891, Apr. LOVE, JAMES LEE, M.A.; Assistant Professor of Mathematics and Chairman of the Summer School of Arts and Sciences, Harvard University, Cambridge, Mass. *16 Francis Avenue.*

1894, Oct. *LOVETT, EDGAR ODELL, M.A., Ph.D. (Virginia, Leipzig); Member of the Société Mathématique de France; Professor of Astronomy, Princeton University, Princeton, N. J.

1905, Feb. LOWBER, JAMES WILLIAM, M.A., Ph.D., D.Sc., LL.D.; F.R.A.S.; Member of the Société Astronomique de France. *113 East 18th Street,* Austin, Texas.

1906, Feb. LUBY, WILLIAM A., B.A.; Instructor in Mathematics, Central High School, Kansas City, Mo.

1896, Nov. *LUDLOW, HENRY HUNT, Graduate of the U. S. Military Academy; Major, U. S. Artillery. Fort Hamilton, New York, N. Y.

1903, Feb. LUNN, ARTHUR C., M.A., Ph.D. (Chicago); Member of the Astronomical and Astrophysical Society of America; Instructor in Applied Mathematics, University of Chicago, Chicago, Ill.

1894, Oct. LYMAN, ELMER A., B.A.; Professor of Mathematics and Principal of the Michigan State Normal College, Ypsilanti, Mich. *126 North Washington Street.*

1904, Sept. LYMER, JOHN CHARLES, M.A.; Acting Professor of Mathematics, Lawrence University, Appleton, Wis. *497 John Street.*

1904, Dec. LYTLE, ERNEST BARNES, B.Sc., M.A. New Haven, Conn. *Box 727, Yale Station.*

1905, Apr. MCCLENON, RAYMOND BENEDICT, B.A., Ph.D. (Yale); Assistant Professor of Mathematics, Iowa College, Grinnell, Ia. *1305 Broad Street.*

1889, Dec. *MCCLINTOCK, EMORY, M.A., Ph.D., LL.D.; EX-PRESIDENT; F.I.A.; Member of the Actuarial Society of America; Member of the London Mathematical Society; Vice-President and Actuary of the Mutual Life Insurance Company of New York. *32 Nassau Street,* New York, N. Y.

1903, Aug. MCCORMACK, THOMAS JOSEPH, LL.B., M.A.; Principal of La Salle-Peru High School, La Salle, Ill.

Date of Admission.		
1902,	Apr.	McDonald, John Hector, B.A., Ph.D. (Chicago); Instructor in Mathematics, University of California, Berkeley, Cal. *2337 Telegraph Avenue.*
1891,	May	McDougall, Alexander Hiram, B.A.; Principal of the Collegiate Institute, Ottawa, Canada. *286 Kent Street.*
1895,	Nov.	McKinney, Thomas Emery, M.A., Ph.D. (Chicago); Associate Professor of Mathematics, Wesleyan University, Middletown, Conn. *5 Brainard Avenue.*
1891,	Apr.	McMahon, James, M.A.; Member of the London Mathematical Society; Professor of Mathematics, Cornell University, Ithaca, N. Y. *7 Central Avenue.*
1891,	Apr.	McNeill, Malcolm, M.A., Ph.D.; Professor of Mathematics and Astronomy, Lake Forest University, Lake Forest, Ill.
1898,	Dec.	*Macaulay, Francis Sowerby, M.A., D.Sc. (London); Member of the London Mathematical Society; Associate Editor of the *Mathematical Gazette;* Mathematical Master, St. Paul's School, West Kensington, London, W., England.
1891,	May	Macfarlane, Alexander, M.A., D.Sc. (Edinburgh), LL.D.; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Lecturer on Mathematical Physics, Lehigh University, South Bethlehem, Pa. *Victoria Avenue, Chatham, Ontario, Canada.*
1905,	Feb.	Maclagan-Wedderburn, Joseph H., M.A.; Fellow of the Royal Society of Edinburgh; Member of the Edinburgh Mathematical Society; Lecturer on Mathematics, University of Edinburgh, Edinburgh, Scotland. *6 Succoth Gardens.*
1888,	Nov.	Maclay, James, C.E., Ph.D. (Columbia); Professor of Mathematics, Columbia University, New York, N. Y.
1906,	Apr.	MacMillan, William Duncan, M.A.; Fellow in Astronomy, University of Chicago, Chicago, Ill. *5407 Woodlawn Avenue.*
1907,	Dec.	Macneill, Murray, M.A.; Member of the Institute of Actuaries; Professor of Mathematics, Dalhousie University, Halifax, Nova Scotia, Canada.
1897,	Jan.	Maddison, Isabel, B.Sc., Ph.D. (Bryn Mawr); Member of the London Mathematical Society; Assistant to the President and Associate in Mathematics, Bryn Mawr College, Bryn Mawr, Pa.

Date of Admission.		
1907,	Sept.	MAHONEY, JAMES OWEN, B.E., M.Sc.; Teacher of Mathematics, High School, Dallas, Texas, *260 Crockett Street.*
1897,	Aug.	MALTBIE, WILLIAM HENRY, M.A., Ph.D. (Johns Hopkins); Professor of Mathematics, The Woman's College, Baltimore, Md.
1900,	June	MANCHESTER, JAMES EUGENE, B.Sc., D.Sc. (Tübingen); Instructor in Mathematics, University of Minnesota, Minneapolis, Minn.
1891,	Nov.	MANN, CHARLES RIBORG, M.A., Ph.D. (Berlin); Associate Professor of Physics, University of Chicago, Chicago, Ill.
1891,	Nov.	MANNING, HENRY PARKER, B.A., Ph.D. (Johns Hopkins); Member of the Circolo Matematico di Palermo; Associate Professor of Pure Mathematics, Brown University, Providence, R. I.
1903,	Oct.	MANNING, WILLIAM ALBERT, M.A., Ph.D. (Stanford); Member of the Circolo Matematico di Palermo; Assistant Professor of Applied Mathematics, Stanford University, Cal.
1891,	June	MARKLEY, JOSEPH LYBRAND, M. A., Ph. D. (Harvard); Professor of Mathematics, University of Michigan, Ann Arbor, Mich. *Geddes and Oxford Road.*
1891,	Apr.	MARTIN, ARTEMAS, M.A., Ph.D., LL.D; Member of the London Mathematical Society; Member of the Société Mathématique de France; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Member of the Edinburgh Mathematical Society; Coast and Geodetic Survey, Washington, D. C. *1510 Ninth Street, N. W.*
1899,	Dec.	MARTIN, EMILIE NORTON, Ph.D. (Bryn Mawr); Instructor in Mathematics, Mount Holyoke College, South Hadley, Mass.
1903,	Dec.	MARTIN, LOUIS ADOLPHE, JR., M.E., M.A.; Assistant Professor of Mathematics and Mechanics, Stevens Institute, Hoboken, N. J. *824 Bloomfield Street.*
1893,	Feb.	MASCHKE, HEINRICH, Ph.D. (Göttingen); Member of the Deutsche Mathematiker-Vereinigung; Associate Professor of Mathematics, University of Chicago, Chicago, Ill.

Date of Admission.

1903, Oct. *Mason, Max, B.L., Ph.D. (Göttingen); Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Assistant Professor of Mathematics, Sheffield Scientific School, Yale University, New Haven, Conn.

1905, Dec. Maxson, Arthur Ray, M.A.; Tutor in Mathematics, Columbia University, New York, N. Y.

1892, Mar. Mendizábal-Tamborrel, Joaquin de, M.A., D.Sc., Geographical and Military Engineer; Member of the London Mathematical Society; Member of the Société Mathématique de France; Member of the Astronomische Gesellschaft; F.R.A.S.; Captain of Engineer Corps. *Sociedad "Alzate," Palma No. 13,* Mexico, D. F., Mexico.

1903, Oct. *Merrill, Helen Abbot, B.A., Ph.D. (Yale); Member of the Deutsche Mathematiker-Vereinigung; Associate Professor of Mathematics, Wellesley College, Wellesley, Mass.

1891, Apr. Merriman, Mansfield, Ph.D., Sc.D.; Member of the American Philosophical Society; Consulting Engineer. *45 Broadway,* New York, N. Y.

1889, June Messenger, Hiram John, Lit.B., Ph.D.; Fellow of the Actuarial Society of America; Actuary of the Travelers Insurance Company, Hartford, Conn.

1907, Sept. Messick, John Frederick, B.A., Ph.D. (Johns Hopkins); Professor of Mathematics, Randolph-Macon College, Ashland, Va.

1891, Oct. *Metzler, William H., B.A., Ph.D. (Clark); Fellow of the Royal Society of Edinburgh; Corresponding Fellow of the Royal Society of Canada; Member of the London Mathematical Society; Member of the Société Mathématique de France; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Associate Editor of the *Journal of Pedagogy;* Francis H. Root Professor of Mathematics, Syracuse University, Syracuse, N. Y. *724 Comstock Avenue.*

1903, Oct. Miller, Ernest Allen, B.Sc., M.A.; Instructor in Mathematics, Massachusetts Institute of Technology, Boston, Mass. *133 Salisbury Road,* Brookline, Mass.

Date of Admission.		
1898,	Apr.	*Miller, George A., Ph.D.; Member of the London Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, University of Illinois, Urbana, Ill. *907 West Nevada Street.*
1899,	Oct.	Miller, John Anthony, M.A., Ph.D. (Chicago); Member of the Astronomical and Astrophysical Society of America; Professor of Mathematics and Astronomy, Swarthmore College, Swarthmore, Pa.
1906,	Feb.	Milne, William J., M.A., Ph.D., LL.D.; President of the New York State Normal College, Albany, N. Y. *5 Elk Street.*
1900,	Dec.	Mitchell, Henry Bedinger, E.E., M.A.; Adjunct Professor of Mathematics, Columbia University, New York, N. Y. *The Benedick, 80 Washington Square East.*
1905,	Apr.	Monroe, Walter Scott, B.A.; Principal of the Vandalia High School, Vandalia, Mo.
1891,	May	Moody, William Albion, M.A.; Professor of Mathematics, Bowdoin College, Brunswick, Me. *60 Federal Street.*
1903,	Feb.	Moore, Clarence Lemuel Elisha, B.Sc., M.A., Ph.D. (Cornell); Member of the Circolo Matematico di Palermo; Instructor in Mathematics, Massachusetts Institute of Technology, Boston, Mass.
1907,	Dec.	Moore, Charles Napoleon, B.A., M.Sc. Harvard University, Cambridge, Mass.
1891,	May	*Moore, Eliakim Hastings, B.A., Ph.D. (Yale; Göttingen, honorary), LL.D.; Ex-President; Member of the National Academy of Sciences; Member of the London Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Professor and Head of the Department of Mathematics, University of Chicago, Chicago, Ill. *5607 Monroe Avenue.*
1906,	Oct.	Moore, Robert Lee, B.Sc., M.A., Ph.D. (Chicago); Instructor in Mathematics, Princeton University, Princeton, N. J.
1905,	Apr.	Morehead, James Caddall, M.A., M.Sc., Ph.D. (Yale); Instructor in Mathematics, Northwestern University, Evanston, Ill. *714 Foster Street.*

Date of Admission.

1902, Apr. MORENO, HALCOTT C., M.A., Ph.D. (Clark); Assistant Professor of Applied Mathematics, Stanford University, Palo Alto, Cal. *1111 Emerson Street.*

1904, Dec. MORITZ, ROBERT EDOUARD, B.Sc., Ph.D. (Strassburg); Professor of Mathematics, University of Washington, Seattle, Wash.

1891, May MORLEY, FRANK, M.A., Sc.D. (Cambridge); Member of the London Mathematical Society; Editor of the *Bulletin of the American Mathematical Society;* Editor of the *American Journal of Mathematics;* Professor of Mathematics, Johns Hopkins University, Baltimore, Md.

1906, Feb. MORRIS, RICHARD, M.Sc., Ph.D. (Cornell); Associate Professor of Mathematics and Graphics, Rutgers College, New Brunswick, N. J. *28 Morris Street.*

1904, Apr. MORRISON, FRANK MARION, B.A.; Assistant Professor of Mathematics, University of Washington, Seattle, Wash. *4719 15th Avenue, N. E.*

1906, Sept. MORROW, EMERSON BOYD, M.A.; Instructor in Mathematics, The Country School for Boys, Baltimore, Md.

1900, Feb. MOULTON, FOREST RAY, B.A., Ph.D. (Chicago); F.R.A.S.; Member of the Circolo Matematico di Palermo; Member of the Astronomical and Astrophysical Society of America; Associate Editor of the *Journal of Geography;* Assistant Professor of Astronomy, University of Chicago, Chicago, Ill.

1900, Dec. *MUKHOPÂDHYÁY, ASUTOSH, M.A., LL.D.; Member of the Société Mathématique de France; Member of the Edinburgh Mathematical Society; Member of the Circolo Matematico di Palermo; F.R.A.S.; Examiner in Mathematics and Member of the Syndicate, University of Calcutta; Professor of Mathematics at the Indian Association for the Cultivation of Science. *77 Russa Road North,* Bhowanipore, Calcutta, India.

1898, Oct. MULLEN, LORING BLANCHARD, Ph.D.; Instructor in Mathematics, Girls' High School, Brooklyn, N. Y.

1890, Dec. MURRAY, DANIEL ALEXANDER, B.A., Ph.D. (Johns Hopkins); Professor of Applied Mathematics, McGill University, Montreal, Canada.

1904, Apr. MYERS, GEORGE WILLIAM, M.L., Ph.D. (Munich); Member of the Astronomische Gesellschaft; Member of the Astronomical and Astrophysical Society of America;

Date of Admission.

Professor of the Teaching of Mathematics and Astronomy, University of Chicago, Chicago, Ill. *480 East 72d Street (Bryn Mawr).*

1903, Aug. NEIKIRK, LEWIS IRVING, M.Sc., Ph.D. (Pennsylvania); Instructor in Mathematics, University of Illinois, Urbana, Ill. *1010½ California Street.*

1891, June NELSON, ALFRED BRIERLEY, M.A., M.D.; Professor of Mathematics, Central University, Danville, Ky. *443 West Lexington Avenue.*

1895, Dec. NEUFELD, JULIUS L., E.E.; Professor of Mathematics, Central High School, Philadelphia, Pa. *1441 North Sixteenth Street.*

1891, Nov. NEWCOMB, SIMON, D.Sc., Ph.D., LL.D., D.C.L.; EX-PRESIDENT; Member of the National Academy of Sciences; Foreign Member of the Royal Society of London; Foreign Associate of the Institute of France; Foreign Associate of the Royal Astronomical Society; President of the Astronomical and Astrophysical Society of America; Co-editor of the *American Journal of Mathematics;* Emeritus Professor of Mathematics and Astronomy, Johns Hopkins University; Professor of Mathematics, U. S. Navy, retired. *1620 P Street,* Washington, D. C.

1904, Dec. NEWKIRK, BURT LEROY, M.A., Ph.D. (Munich); Member of the Astronomische Gesellschaft; Member of the Deutsche Mathematiker-Vereinigung; Assistant Professor of Mathematics and Mechanics, College of Engineering, University of Minnesota, Minneapolis, Minn.

1906, Feb. NEWLIN, WILLIAM J., B.Sc., M.E., M.A.; Associate Professor of Mathematics and Philosophy, Amherst College, Amherst, Mass.

1895, Oct. NEWSON, HENRY BYRON, M.A., Ph.D.; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Editor of the *Kansas University Science Bulletin;* Professor of Mathematics, University of Kansas, Lawrence, Kan.

1897, Jan. NEWSON, MARY WINSTON, B.A., Ph.D. (Göttingen). *1702 Massachusetts Street,* Lawrence, Kan.

1899, Aug. NICHOLS, THOMAS FLINT, B.A., Ph.D. (Clark); Assistant Engineer, State Engineer's Office. Weigh Lock, Syracuse, N. Y.

Date of Admission.		
1900,	Dec.	NICHOLS, WALTER SMITH, M.A.; Fellow of the Actuarial Society; Editor of the *Insurance Monitor* and the *Insurance Law Journal. 100 William Street,* New York, N. Y.
1899,	Dec.	NOBLE, CHARLES ALBERT, B.Sc., Ph.D. (Göttingen); Assistant Professor of Mathematics, University of California, Berkeley, Cal. *2731 Durant Avenue.*
1906,	Sept.	OBEAR, GEORGE BARROWS, M.Sc.; Member of the Circolo Matematico di Palermo; Assistant in Mathematics, Brown University, Providence, R. I.
1891,	Dec.	OLDS, GEORGE DANIEL, M.A., LL.D.; Professor of Mathematics, Amherst College, Amherst, Mass.
1905,	Oct.	OLSON, HENRY NATHANIEL, B.A.; Instructor in Mathematics, Bethany College, Lindsborg, Kan. *P. O. Box 288.*
1891,	Apr.	OSBORNE, GEORGE ABBOTT, B.Sc.; Walker Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass.
1895,	Feb.	OSGOOD, WILLIAM FOGG, M.A., Ph.D. (Erlangen); EX-PRESIDENT; Member of the National Academy of Sciences; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Professor of Mathematics, Harvard University, Cambridge, Mass. *74 Avon Hill Street.*
1906,	Apr.	OWENS, FREDERICK W., M.Sc., Ph.D. (Chicago); Instructor in Mathematics, Cornell University, Ithaca, N. Y. *201 Pleasant Street.*
1900,	Dec.	PAGE, JAMES MORRIS, M.A., Ph.D. (Leipzig); Professor of Mathematics and Dean of the University of Virginia, Charlottesville, Va.
1907,	Feb.	PALMER, THOMAS WAVERLY, M.A., LL.D.; President of the Alabama Girls' Industrial School, Montevallo, Ala.
1897,	May	PALMIÉ, ANNA HELENE, B.Ph.; Professor of Mathematics, College for Women, Western Reserve University, Cleveland, O. *2733 Euclid Avenue.*
1894,	Mar.	*PARTRIDGE, EDWARD ANSON, B.Sc., M.A., Ph.D.; Professor of Physics, Central Manual Training School, Philadelphia, Pa. *17th and Wood Streets.*
1907,	Feb.	PATTILLO, NATHAN ALLEN, M.A., Ph.D. (Johns Hopkins); Professor of Mathematics, Randolph-Macon Woman's College, Lynchburg, Va.

Date of Admission.

1896, Dec. PATTERSON, JAMES LAWSON, B.Ph., D.Sc. (Princeton); Head Master of Chestnut Hill Academy, Chestnut Hill, Philadelphia, Pa.

1906, Sept. PEDERSEN, FREDERICK MALLING, E.E., D.Sc.; Instructor in Mathematics, College of the City of New York, New York, N. Y. *452 West 144th Street.*

1891, May PEIRCE, BENJAMIN OSGOOD, Ph.D. (Leipzig); Member of the National Academy of Sciences; Member of the Circolo Matematico di Palermo; Member of the Astronomical and Astrophysical Society of America; Hollis Professor of Mathematics and Natural Philosophy, Harvard University, Cambridge, Mass. *The Jefferson Physical Laboratory.*

1898, Oct. PELL, ALEXANDER, Ph.D. (Johns Hopkins); Professor of Mathematics, University of South Dakota, Vermillion, S. D.

1906, Feb. PELL, ANNA (Mrs. ALEXANDER). Vermillion, S. D.

1906, Feb. PESTA, ROSE ALICE, M.L.; Instructor in Mathematics, Chicago Normal School, Chicago, Ill. *2964 Prairie Avenue.*

1893, Oct. PETTEGREW, DAVID LYMAN, Member of the Circolo Matematico di Palermo. *P. O. Box 75,* Worcester, Mass.

1892, Oct. PFISTER, JOSEPH CLEMENT, M.A.; Adjunct Professor of Mechanics, Columbia University, New York, N. Y.

1896, Nov. PHILLIPS, ANDREW WHEELER, M.A., Ph.D. (Yale); Professor of Mathematics and Dean of the Graduate School, Yale University, New Haven, Conn. *90 High Street.*

1906, Feb. PHILLIPS, HENRY BAYARD, B.Sc., Ph.D. (Johns Hopkins); Instructor in Mathematics, Massachusetts Institute of Technology, Boston, Mass.

1903, Aug. PIERCE, ARCHIE BURTON, B.Sc., M.A., Ph.D. (Zurich); Member of the Deutsche Mathematiker-Vereinigung; Assistant Professor of Mathematics, University of Michigan, Ann Arbor, Mich. *732 Packard Street.*

1894, Oct. PIERPONT, JAMES, Ph.D. (Vienna); Member of the Société Mathématique de France; Member of the London Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, Yale University, New Haven, Conn. *42 Mansfield Street.*

1889, Dec. PIERSON, ISRAEL CORIELL, M.A., Ph.D.; Member of the Actuarial Society of America; Consulting Actuary. *141 Broadway,* New York, N. Y.

Date of Admission.		
1905,	Feb.	PLIMPTON, GEORGE ARTHUR, B.A.; Trustee of Amherst College; Treasurer of Barnard College. Ginn and Company, *70 Fifth Avenue,* New York, N. Y.
1905,	Feb.	PONZER, ERNEST WILLIAM, M.Sc.; Instructor in Mathematics, University of Illinois, Champaign, Ill. *708 South Fourth Street.*
1890,	Dec.	POOR, CHARLES LANE, Ph.D. (Johns Hopkins); Member of the Astronomische Gesellschaft; F.R.A.S.; Editor of the *Annals of the New York Academy of Sciences;* Professor of Astronomy, Columbia University, New York, N. Y. *4 East 48th Street.*
1905,	Sept.	POOR, JOHN MERRELL, B.A., Ph.D (Princeton); Member of the Astronomical and Astrophysical Society of America; Assistant Professor of Astronomy, Dartmouth College, Hanover, N. H.
1897,	Feb.	PORTER, MILTON BROCKETT, B.Sc., M.A., Ph.D. (Harvard); Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, University of Texas, Austin, Texas.
1907,	Feb.	POSEY, FRANCIS DUNNINGTON, B.A. Shortridge High School, Indianapolis, Ind.
1907,	Sept.	POWELL, H. WHEELER, B.Sc.; Tutor in Mathematics, College of the City of New York. *St. Nicholas Terrace,* New York, N. Y.
1892,	May	PRENTISS, ROBERT WOODWORTH, M.Sc.; Professor of Mathematics and Astronomy, Rutgers College, New Brunswick, N. J. *Benner Street, Highland Park.*
1907,	Oct.	PROCTOR, CHARLES A., B.A.; Assistant Professor of Mathematics, Dartmouth College, Hanover, N. H.
1889,	Dec.	*PUPIN, MICHAEL IDVORSKY, B.A., Ph.D. (Berlin), Sc.D. (Columbia, honorary); Professor of Electro-Mechanics, Columbia University, New York, N. Y.
1891,	June	PURYEAR, CHARLES, B.Sc., M.A., C.E.; Professor of Mathematics, Agricultural and Mechanical College of Texas, College Station, Texas.
1902,	Apr.	PUTNAM, THOMAS MILTON, M.Sc., Ph.D. (Chicago); Assistant Professor of Mathematics, University of California, Berkeley, Cal.
1906,	Apr.	QUINN, JOHN JAMES, Ph.D.; Supervisor of Manual Training, Scottdale, Pa.
1903,	Dec.	RAGSDALE, VIRGINIA, B.A., Ph.D. (Bryn Mawr). Jamestown, N. C.

Date of Admission.		
1894,	Mar.	RAND, JOHN HOLMES, M.A.; Professor of Mathematics, Bates College, Lewiston, Me. *28 Frye Street.*
1904,	Oct.	RANUM, ARTHUR, Ph.D.; Instructor in Mathematics, Cornell University, Ithaca, N. Y. *91 Wait Avenue.*
1903,	Dec.	RASOR, S. EUGENE, M.A., M.Sc.; Assistant Professor of Mathematics, Ohio State University, Columbus, Ohio.
1891,	Dec.	RAYSON, AMY, M.A.; Joint Principal of School for Girls, New York, N. Y. *168 West 75th Street.*
1905,	Feb.	*REDDICK, HARRY WILFRED, M.A.; Livingston Hall, Columbia University, New York, N. Y.
1907,	Apr.	REGIS, BROTHER FRANCIS, M.A.; Professor of Mathematics, Christian Brothers' College, St. Louis, Mo.
1900,	Apr.	REID, LEGH WILBER, B.A., M.Sc., Ph.D. (Göttingen); Professor of Mathematics, Haverford College, Haverford, Pa.
1903,	Feb.	REYNOLDS, FREDERICK GREGORY, LL.B., Sc.D.; Assistant Professor of Mathematics, College of the City of New York, New York, N. Y. *17 Lexington Avenue.*
1893,	Apr.	RICE, CHARLES MOEN, B.A. *P. O. Box 215,* Worcester, Mass.
1905,	Apr.	RICHARDSON, R. G. D., B.A., Ph.D. (Yale); Member of the Deutsche Mathematiker-Vereinigung; Assistant Professor of Mathematics, Brown University, Providence, R. I. *39 Benevolent Street.*
1905,	Apr.	RICHARDSON, SOPHIA FOSTER, B.A.; Instructor in Mathematics, Vassar College, Poughkeepsie, N. Y.
1899,	Aug.	*RICHMOND, HERBERT WILLIAM, M.A.; Fellow of the Cambridge Philosophical Society; Member of the London Mathematical Society; Fellow and Lecturer of King's College, and University Lecturer, Cambridge University, Cambridge, England.
1902,	Oct.	RIETZ, HENRY LEWIS, B.Sc., Ph.D. (Cornell); Assistant Professor of Mathematics, University of Illinois, Urbana, Ill. *907 West California Avenue.*
1903,	Apr.	RIGGS, NORMAN C., M.Sc.; Associate Professor of Mathematics, Armour Institute of Technology, Chicago, Ill.
1906,	Apr.	RISLEY, WALTER JOHN, B.Sc., M.A.; Assistant in Astronomy, Harvard University, Cambridge, Mass. *230 Upland Road, Station B.*
1907,	Dec.	ROBERTS, MARIA M.; Associate Professor of Mathematics, Iowa State College, Ames, Ia.

Date of Admission.		
1891,	May	ROCKWOOD, CHARLES GREENE, JR., M.A., Ph.D. (Yale); Member of the Circolo Matematico di Palermo; Emeritus Professor of Mathematics, Princeton University, Princeton, N. J. *34 Bayard Lane.*
1896,	Apr.	ROE, EDWARD DRAKE, JR., M.A., Ph.D. (Erlangen); Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Member of the Astronomical and Astrophysical Society of America; John Raymond French Professor of Mathematics, Syracuse University, Syracuse, N. Y. *105 Ostrander Avenue.*
1902,	Apr.	ROEVER, WILLIAM HENRY, B.Sc., Ph.D. (Harvard); Instructor in Mathematics, Massachusetts Institute of Technology, Boston, Mass. *44 Martin Street,* Cambridge, Mass.
1906,	Sept.	ROSS, GEORGE ALBERT, M.A.; Instructor in Mathematics, George Washington University, Washington, D. C.
1897,	Feb.	ROTHROCK, DAVID ANDREW, M.A., Ph.D. (Leipzig); Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Junior Professor of Mathematics, University of Indiana, Bloomington, Ind. *1000 Atwater Avenue.*
1904,	Feb.	RUNNING, THEODORE RUDOLPH, M.Sc., Ph.D. (Wisconsin); Assistant Professor of Mathematics, University of Michigan, Ann Arbor, Mich. *1019 Michigan Avenue.*
1903,	Aug.	RUSK, WILLIAM JAMES, M.A.; Professor of Mathematics, Iowa College, Grinnell, Ia. *1022 Park Street.*
1906,	Oct.	RUSSELL, WILLIAM POLK, B.A.; Instructor in Mathematics, Pomona College, Claremont, Calif.
1907,	Oct.	RYSGAARD, JENS MADSEN, B.A.; Instructor in Mathematics, University of North Dakota, University, N. D.
1898,	Aug.	SAFFORD, FREDERICK HOLLISTER, M.A., Ph.D. (Harvard); Assistant Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa. *College Hall.*
1897,	Dec.	SAUREL, PAUL LOUIS, D.Sc. (Bordeaux); Associate Professor of Mathematics, College of the City of New York, New York, N. Y.
1891,	Nov.	SAYRE, HERBERT ARMISTEAD, B.E., Ph.D. (Johns Hopkins); Professor of Mathematics, University of Alabama, University, Ala.
1906,	Oct.	SCARBOROUGH, JAMES HARRIS, M.Sc., M.A.; Member of the Circolo Matematico di Palermo; Professor of

Date of Admission.		
		Mathematics, Missouri State Normal School, Warrensburg, Mo.
1892,	Feb.	*Schmiedel, Oscar, B.Sc., M.A.; Professor of Mathematics, Bellevue College, Bellevue, Neb.
1900,	Oct.	Schottenfels, Ida May, M.A. *684 East 48th Place*, Chicago, Ill.
1892,	Apr.	Schultze, Arthur, Ph.D.; Assistant Professor of Mathematics, New York University; Head of the Mathematical Department, High School of Commerce, New York, N. Y.
1893,	Oct.	Schwatt, Isaac J., Ph.D.; Member of the Deutsche Mathematiker-Vereinigung; Assistant Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa.
1906,	Feb.	Schweitzer, Arthur Richard, Ph.B., M.Sc. *1906 Oakdale Avenue*, Chicago, Ill.
1891,	May	Scott, Charlotte Angas, D.Sc. (London); Member of the London Mathematical Society; Member of the Edinburgh Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Honorary Member of the Amsterdam Mathematical Society; Co-Editor of the *American Journal of Mathematics;* Professor of Mathematics, Bryn Mawr College, Bryn Mawr, Pa.
1902,	Oct.	Scott, George Harvey, M.A.; Professor of Mathematics and Astronomy, Yankton College, Yankton, S. D.
1889,	June	Searle, Rev. George Mary, M.A., Ph.D.; Superior General of Paulist Fathers, Catholic University, Washington, D. C.
1895,	Aug.	See, Thomas Jefferson Jackson, M.A., M.Sc., Ph.D. (Berlin); Member of the Astronomische Gesellschaft; Member of the Société Astronomique de France; F.R.A.S.; Member of the London Mathematical Society; Member of the Société Mathématique de France; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Member of the American Philosophical Society; Professor of Mathematics, U. S. Navy, Mare Island, Cal. *Naval Observatory.*
1902,	Feb.	Séguier, Jean Armand Marie Joseph de, D.Sc.; Member of the Société Mathématique de France. *56 Rue des Saints Pères*, Paris, France.

Date of Admission.		
1899,	Aug.	SELLEW, GEORGE TUCKER, M.A., Ph.D.; Professor of Mathematics, Knox College, Galesburg, Ill.
1892,	June	SHACK, FERDINAND, B.Sc., M.A., LL.B. *52 Wall Street*, New York, N. Y.
1905,	Apr.	SHARPE, FRANCIS ROBERT, B.A., Ph.D. (Cornell); Instructor in Mathematics, Cornell University, Ithaca, N. Y. *213 Mitchell Street.*
1891,	Apr.	SHATTUCK, SAMUEL WALKER, B.Sc., M.A., C.E.; Professor of Mathematics, University of Illinois, Champaign, Ill.
1894,	Mar.	SHAW, JAMES BYRNIE, M.Sc., D.Sc., Member of the Circolo Matematico di Palermo; Professor of Mathematics, James Millikin University, Decatur, Ill. *1258 West Macon Street.*
1907,	Dec.	SHELDON, ERNEST WILSON, M.A.; Instructor in Mathematics, Yale University, New Haven, Conn. *542 Pierson Hall.*
1906,	Dec.	SHEPARD, ELMER I., M.A.; Instructor in Mathematics, Williams College, Williamstown, Mass.
1906,	Sept.	SHORT, ROBERT L., B.A.; Mathematical Editor of D. C. Heath and Company, Chicago, Illinois. *378 Wabash Avenue.*
1906,	Oct.	SICELOFF, LEWIS PARKER, B.A.; Tutor in Mathematics, Columbia University, New York, N. Y.
1906,	Feb.	SIMPSON, CHARLES GAMBLE, B.Ph., M.A.; Instructor in Mathematics, State University of Iowa, Iowa City, Ia. *309 East Church Street.*
1905,	Feb.	SINCLAIR, MARY EMILY, M.A.; Instructor in Mathematics, Oberlin College, Oberlin, Ohio.
1904,	Oct.	SISAM, CHARLES HERSCHEL, Ph.D. (Cornell); Member of the Deutsche Mathematiker-Vereinigung; Associate in Mathematics, University of Illinois, Urbana, Ill. *609 South Busey Avenue.*
1899,	Aug.	SKINNER, ERNEST BROWN, B.A., Ph.D. (Chicago); Assistant Professor of Mathematics, University of Wisconsin, Madison, Wis. *210 Lathrop Street.*
1899,	Oct.	SLAUGHT, HERBERT ELLSWORTH, M.A., Ph.D. (Chicago); Member of the Circolo Matematico di Palermo; Editor of the *American Mathematical Monthly;* Assistant Professor of Mathematics, University of Chicago, Chicago, Ill. *58th Street and Ellis Avenue.*

Date of Admission.		
1891,	May	*SLICHTER, CHARLES S., M.Sc.; Consulting Engineer, U. S. Reclamation Service; Professor of Applied Mathematics, University of Wisconsin, Madison, Wis. *636 Francis Street.*
1901,	Apr.	SLOCUM, STEPHEN ELMER, B.E., Ph.D. (Clark); Professor of Applied Mathematics, University of Cincinnati, Cincinnati, Ohio.
1904,	Oct.	SMITH, ADELAIDE; Lecturer on Mathematics, Huguenot College, Wellington, Cape Colony, S. A. *625 Fifth Avenue, San Rafael, Calif.*
1905,	Feb.	SMITH, ARTHUR WHIPPLE, M.Sc., Ph.D. (Chicago); Assistant Professor of Mathematics, Colgate University, Hamilton, N. Y.
1904,	Sept.	SMITH, CLARA ELIZA, B.A., Ph.D. (Yale); Instructor in Mathematics, Western College, Oxford, Ohio.
1893,	Oct.	SMITH, DAVID EUGENE, M.Ph., Ph.D., LL.D.; Member of the Deutsche Mathematiker-Vereinigung; Editor of the *Bulletin of the American Mathematical Society;* Professor of Mathematics, Teachers College, Columbia University, New York, N. Y.
1898,	Apr.	SMITH, EUGENE RANDOLPH, M.A.; Instructor in Mathematics, Montclair High School, Montclair, N. J. *160 Valley Road.*
1905,	Oct.	SMITH, FRANKLIN HANS, M.A.; Instructor in Mathematics, Eastern District High School, Brooklyn, N. Y. *201 West 94th Street, New York, N. Y.*
1907,	Feb.	SMITH, GERTRUDE, M.A.; Instructor in Mathematics, Vassar College, Poughkeepsie, N. Y.
1891,	Nov.	SMITH, PERCEY F., Ph.D.; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, Sheffield Scientific School, Yale University, New Haven, Conn. *330 Willow Street.*
1891,	Apr.	SMITH, WILLIAM BENJAMIN, M.A., Ph.D. (Göttingen), LL.D. (Kentucky); Professor of Philosophy, Tulane University, New Orleans, La.
1904,	Oct.	SNELLING, CHARLES MERCER, Graduate of the Virginia Military Institute, M.A.; Professor of Mathematics, University of Georgia, Athens, Ga. *P. O. Box 283.*
1889,	Dec.	SNOOK, THOMAS EDWARD, M.E.; Architect and Engineer. *73 Nassau Street,* New York, N. Y.
1895,	Apr.	SNYDER, MONROE BENJAMIN, M.A.; Member of the Astronomische Gesellschaft; F.R.A.S.; Professor of Astronomy and Applied Mathematics and Head of the

Date of Admission.		
		Department of Mathematics, Central High School, Philadelphia, Pa.; Director of the Philadelphia Observatory. *2402 North Broad Street.*
1896,	Nov.	SNYDER, VIRGIL, M.A., Ph.D. (Göttingen); Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Editor of the *Bulletin of the American Mathematical Society;* Assistant Professor of Mathematics, Cornell University, Ithaca, N. Y. *214 University Avenue.*
1892,	May	SQUIER, GEORGE OWEN, Ph.D. (Johns Hopkins); Major, Signal Corps, U. S. Army. Fort Leavenworth, Kans.
1888,	Nov.	STABLER, EDWARD LINCOLN, M.A., Ph.D. (Columbia); U. S. Leather Co., *26 Ferry Street,* New York, N. Y.
1906,	Feb.	STAMPER, ALVA WALKER, B.Sc., M.A., Ph.D. (Columbia); Head of the Department of Mathematics, State Normal School, Chico, Cal. *326 Salem Street.*
1894,	Nov.	*STECKER, HENRY FREEMAN, M.Sc., Ph.D.; Member of the Deutsche Mathematiker-Vereinigung; Associate Professor of Mathematics, Pennsylvania State College, State College, Pa. *Lock Box 305.*
1891,	Jan.	STEINMETZ, CHARLES PROTEUS, Ph.D; Consulting Engineer of the General Electric Company; Professor of Electrical Engineering, Union University, Schenectady, N. Y.
1907,	Apr.	STELLWAGEN, HERBERT PHILIP, B.Sc.; Teacher of Mathematics, Yeatman High School, St. Louis, Mo. *2048 East Fair Avenue.*
1906,	Oct.	STÉPHANOS, CYPARISSOS, Ph.D. (Athens), D.Sc. (Paris); Member of the Société Mathématique de France; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Professor of Mathematics, University of Athens, Athens, Greece. *20 Rue de Solon.*
1906,	Apr.	STEPHENS, ROSWELL POWELL, B.A., Ph.D. (Johns Hopkins); Adjunct Professor of Mathematics, University of Georgia, Athens, Ga.
1891,	May	STONE, ORMOND, M.A.; Editor of the *Annals of Mathematics;* Director of the Leander McCormick Observatory and Professor of Practical Astronomy, University of Virginia, Charlottesville, Va.

Date of Admission.		
1897,	Feb.	STORY, WILLIAM EDWARD, B.A., Ph.D. (Leipzig); Member of the London Mathematical Society; Professor of Mathematics, Clark University, Worcester, Mass.
1902,	Apr.	STRINGHAM, IRVING, B.A., Ph.D. (Johns Hopkins); Professor of Mathematics and Dean of the College of Social Sciences, University of California, Berkeley, Cal. *The Owl's Nest, Prospect Avenue.*
1903,	Feb.	STROMQUIST, CARL EBEN, B.Sc., Ph.D. (Yale); Instructor in Mathematics, Princeton University, Princeton, N. J.
1895,	Dec.	STRONG, WENDELL MELVILLE, LL.B., M.A., Ph.D. (Yale); Fellow of the Actuarial Society of America; Assistant Actuary of the Mutual Life Insurance Company of New York. *32 Nassau Street.*
1904,	Oct.	STUDY, EDUARD, Ph.D.; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, University of Bonn, Bonn, Germany. *Goebenstrasse 28.*
1906,	Apr.	SUTER, JESSE DWIGHT, B.A. *The Marburg,* Madison, Wis.
1903,	Apr.	SWARTZEL, KARL DALE, M.Sc.; Associate Professor of Mathematics, Ohio State University, Columbus, Ohio. *308 West Eighth Avenue.*
1904,	Apr.	SWIFT, ELIJAH, M.A., Ph.D. (Göttingen); Instructor in Mathematics, Princeton University, Princeton, N. J. *23 Madison Street.*
1891,	May	*TABER, HENRY, B.Ph., Ph.D. (Johns Hopkins); Member of the London Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, Clark University, Worcester, Mass.
1896,	Nov.	*TANNER, JOHN HENRY, B.Sc., Ph.D.; Professor of Mathematics, Cornell University, Ithaca, N. Y. *Cornell Heights.*
1903,	Oct.	TAYLOR, EDSON HOMER, B.Sc., M.A.; Teacher of Mathematics, Eastern Illinois State Normal School, Charleston, Ill.
1891,	Apr.	TAYLOR, JAMES MORFORD, M.A., LL.D.; Professor of Mathematics, Colgate University, Hamilton, N. Y.
1903,	Feb.	TAYLOR, WILLIAM ERASTUS, M.Ph.; Ph.D. (Syracuse); Professor of Applied Mathematics, College of Applied Science, Syracuse University, Syracuse, N. Y. *822 Irving Avenue.*

Date of Admission.		
1891,	Apr.	*Thompson, Henry Dallas, M.A., D.Sc., Ph.D.; Professor of Mathematics, Princeton University, Princeton, N. J. *11 Morven Street.*
1897,	Jan.	Thornburg, Charles Lewis, B.Sc., C.E., Ph.D.; Professor of Mathematics and Astronomy, Lehigh University, South Bethlehem, Pa. *2 University Park.*
1901,	Oct.	Tory, Henry M., M.A., D.Sc., LL.D.; President of the University of Alberta, Canada.
1907,	Oct.	Toussaint, Camille A., M.A.; Tutor in Mathematics, College of the City of New York, New York, N. Y. *3688 Boulevard, Jersey City, N. J.*
1906,	Feb.	Touton, Frank C., B.Ph.; Teacher of Mathematics, Central High School, Kansas City, Mo.
1902,	Apr.	Townley, Sidney Dean, M.Sc., Sc.D. (Michigan); Editor of the *Publications of the Astronomical Society of the Pacific;* Lecturer in Astronomy, University of California; Assistant Professor of Applied Mathematics, Stanford University, Cal.
1895,	Nov.	Townsend, Edgar Jerome, M.A., Ph.D. (Göttingen); Professor of Mathematics and Dean of the College of Science, University of Illinois, Champaign, Ill. *510 John Street.*
1905,	Dec.	Travis, John Francis, M.A.; Member of the Circolo Matematico di Palermo. *3927 Forbes Street,* Pittsburgh, Pa.
1906,	Sept.	Trier, Betty, M.A.; Teacher of Algebra and Sciences, Townsend's School, Newark, N. J. *106 South Fullerton Avenue, Montclair, N. J.*
1906,	Feb.	Tripp, Myron Owen, B.Sc., B.A.; Tutor in Mathematics, College of the City of New York, New York, N. Y. *Lincoln Park, Yonkers, N. Y.*
1903,	Aug.	Trueblood, Mary Esther, M.Ph.; Instructor in Mathematics, Mount Holyoke College, South Hadley, Mass *6 Maple Street, Springfield, Mass.*
1894,	Aug.	Tyler, Harry Walter, B.Sc., Ph.D. (Erlangen); Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass.
1907,	Feb.	Underhill, Anthony Lispenard, B.Sc., Ph.D. (Chicago); Instructor in Mathematics, University of Wisconsin, Madison, Wis. *The Hamilton.*

Date of Admission.		
1903,	Aug.	UPTON, CLIFFORD BREWSTER, M.A.; Instructor in Mathematics, Teachers College, Columbia University; Instructor in Mathematics, Horace Mann High School, New York, N. Y.
1888,	Nov.	VAN AMRINGE, J. HOWARD, M.A., Ph.D. L.H.D., LL.D.; EX-PRESIDENT; Professor of Mathematics and Dean of Columbia College, Columbia University, New York, N. Y. *48 East 26th Street.*
1903,	Oct.	VAN BENSCHOTEN, ANNA LAVINIA, M.Sc.; Professor of Mathematics, Wells College, Aurora, N. Y.
1902,	Feb.	VAN DER HEYDEN, ALEXANDER FREDERICK, M.A.; Member of the Mathematical Association; Mathematical Master, Middlesbrough High School, Middlesbrough, England. *3 St. John's Terrace.*
1903,	Feb.	VAN ORSTRAND, CHARLES EDWIN, M.Sc.; Geophysical Laboratory, Carnegie Institution, Washington, D. C.
1893,	Apr.	VAN VLECK, EDWARD BURR, M.A., Ph.D. (Göttingen); Member of the Société Mathématique de France; Member of the Deutsche Mathematiker-Vereinigung; Editor of the *Transactions of the American Mathematical Society;* Professor of Mathematics, University of Wisconsin, Madison, Wis.
1891,	Apr.	VAN VLECK, JOHN MONROE, M.A., LL.D.; Member of the Astronomische Gesellschaft; Emeritus Professor of Mathematics and Astronomy, Wesleyan University, Middletown, Conn.
1900,	June	VAUGHN, WILLIAM JAMES, M.A., LL.D.; Professor of Mathematics and Astronomy, Vanderbilt University, Nashville, Tenn.
1903,	Aug.	*VEBLEN, OSWALD, B.A., Ph.D. (Chicago); Member of the Circolo Matematico di Palermo; Assistant Professor of Mathematics, Princeton University, Princeton, N. J.
1900,	Dec.	VIVIAN, ROXANA HAYWARD, B.A., Ph.D. (Pennsylvania); Instructor in Mathematics, Wellesley College, Wellesley, Mass. *106 Gordon Avenue, Hyde Park, Mass.*
1905,	Dec.	VOLTERRA, VITO, Phys.D. (Pisa), Math.D. (Christiania), Sc.D. (Cambridge); Senator of the Kingdom of Italy; Member of the Italian Society of Sciences; Member of

Date of Admission.

the Reale Accademia dei Lincei; Member of the Reale Accademia delle Scienze di Torino; Corresponding Member of the Institut de France; Corresponding Member of the Königliche Gesellschaft der Wissenschaften zu Göttingen; Corresponding Member of the Reale Istituto Lombardo di Scienze e Lettere; Corresponding Member of the Reale Accademia delle Scienze dell' Istituto di Bologna; Corresponding Member of the Reale Accademia delle Scienze, Lettere ed Arti di Modena; Honorary Member of the London Mathematical Society; Member of the Bureau de la Société Mathématique de France; Member of the Deutsche Mathematiker-Vereinigung; Member of the Directive Council of the Circolo Matematico di Palermo; Professor of Mathematical Physics and Celestial Mechanics, University of Rome, Rome, Italy. *Via in Lucina, 17.*

1905, Dec. WADDELL, MARY EVELYN GERTRUDE, M.A. Orono, Ontario, Canada.

1891, Oct. WAIT, LUCIEN AUGUSTUS, B.A.; Professor of Mathematics, Cornell University, Ithaca, N. Y. *Rockledge.*

1891, Apr. WALDO, CLARENCE ABIATHAR, M.A., Ph.D.; Head Professor of Mathematics, Purdue University, Lafayette, Ind. *806 South Street.*

1898, Dec. WALKER, BUZZ M., M.Sc., Ph.D. (Chicago); Professor of Mathematics and Director of the School of Engineering, Mississippi Agricultural and Mechanical College, Agricultural College, Miss.

1905, Apr. WALKER, MARY SHORE, M.A.; Assistant in Mathematics, University of Missouri, Columbia, Mo. *1113 University Avenue.*

1898, Apr. WASHBURNE, ALVA COURTENAY, Member of the Actuarial Society of America; Actuary of the Hartford Life Insurance Company, Hartford, Conn.

1902, Apr. WEBB, HARRISON EMMETT, B.A.; Instructor in Mathematics and Science, Stevens School, Hoboken, N. J. *8 Irving Place, Summit, N. J.*

1891, Oct. WEBB, JOHN BURKITT, C.E.; Emeritus Professor of Mathematics and Mechanics, Consulting Engineer, Stevens Institute of Technology, Hoboken, N. J. *Hoboken, N. J.*

Date of Admission.		
1891,	May	WEBSTER, ARTHUR GORDON, B.A., Ph.D. (Berlin), Sc.D. (Tufts); Member of the National Academy of Sciences; Member of the Deutsche Mathematiker-Vereinigung; Professor of Physics, Clark University, Worcester, Mass.
1891,	June	WEEKS, RUFUS WELLS, Associate of the Institute of Actuaries; Corresponding Member of the Institut des Actuaires Français; Member of the Deutscher Verein für Versicherungs-Wissenschaft; Vice-President and Chief Actuary of the New York Life Insurance Company. *346 Broadway,* New York, N. Y.
1892,	Feb.	WELD, LAENAS GIFFORD, B.Sc., M.A.; Professor of Mathematics and Astronomy and Dean of the College of Liberal Arts, State University of Iowa, Iowa City, Ia.
1891,	Apr.	WELLS, WEBSTER, B.Sc.; Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass.
1896,	Sept.	WENTZ, ESTELLA KATE, M.Sc.; Instructor in Mathematics, Manual Training High School, Indianapolis, Ind.
1897,	Feb.	WERNICKE, AUGUST LUDWIG PAUL, Ph.D. (Göttingen); Member of the Deutsche Mathematiker-Vereinigung; Instructor in Mathematics, Washington University, St. Louis, Mo.
1897,	Dec.	*WESTERN, ALFRED EDWARD, M.A.; Member of the London Mathematical Society; Fellow of the Cambridge Philosophical Society. *36 Lancaster Gate,* London, W., England.
1902,	Dec.	WESTFALL, W. D. A., B.A., Ph.D. (Göttingen); Member of the Deutsche Mathematiker-Vereinigung; Instructor in Mathematics, University of Missouri, Columbia, Mo. *Nikolausbergerweg 35A, Göttingen, Germany.*
1898,	Aug.	WESTLUND, JACOB, Ph.D. (Yale); Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Associate Professor of Mathematics, Purdue University, Lafayette, Ind. *222 Main Street, West Lafayette.*
1892,	Nov.	WHITE, HENRY SEELY, B.A., Ph.D. (Göttingen); Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Editor of the *Transactions of the American Mathematical Society;* Professor of Mathematics, Vassar College, Poughkeepsie, N. Y.

Date of Admission.		
1902,	Apr.	WHITNEY, ALBERT WURTS, B.A.; Assistant Professor of Mathematics and Insurance Methods, University of California, Berkeley, Cal. *Canyon Road.*
1897,	Dec.	*WHITTAKER, EDMUND TAYLOR, M.A., Sc.D., F.R.S.; Member of the London Mathematical Society; F.R.A.S.; Royal Astronomer of Ireland, Dunsink Observatory, Dublin, Ireland.
1897,	Feb.	WHITTEMORE, JAMES KELSEY, M.A.; Editor of the *Annals of Mathematics;* Assistant Professor of Mathematics, Harvard University, Cambridge, Mass. *371 Harvard Street.*
1899,	Feb.	WILCZYNSKI, ERNST JULIUS, Ph.D. (Berlin); Member of the Circolo Matematico di Palermo; Associate Professor of Mathematics, University of Illinois, Champaign, Ill. *817 West Hill Street.*
1892,	May	WILLARD, JOSEPH MOODY, B.A.; Professor of Mathematics, Pennsylvania State College, State College, Pa.
1895,	May	WILLIAMS, CLARKE BENEDICT, M.A.; Olney Professor of Mathematics, Kalamazoo College, Kalamazoo, Mich. *214 Stuart Avenue.*
1892,	May	WILLIAMS, ELLA CORNELIA, M.A. *106 West 49th Street,* New York, N. Y.
1905,	Sept.	WILLIAMS, JOHN EDWARD, M.A., Ph.D. (Virginia); Professor of Mathematics, Virginia Polytechnic Institute, Blacksburg, Va.
1898,	Apr.	WILLIAMS, WILLIAM HILL, M.A.; Professor of Mathematics, Wisconsin State Normal School, Platteville, Wis.
1891,	May	WILLSON, FREDERICK NEWTON, M.A., C.E.; Professor of Descriptive Geometry, Stereotomy, and Technical Drawing, John C. Green School of Science, Princeton University, Princeton, N. J. *P. O. Box 63.*
1901,	Oct.	WILSON, ALBERT HARRIS, M.Sc.; Associate Professor of Mathematics, Alabama Polytechnic Institute, Auburn, Ala.
1906,	Apr.	WILSON, ALBERT MILLER, M.A.; Teacher of Mathematics, McKinley High School, St. Louis, Mo.
1904,	Sept.	WILSON, DELONZA TATE, M.A., Ph.D. (Chicago); Member of the Astronomical and Astrophysical Society of America; Assistant Professor of Mathematics and

Date of Admission.		
		Astronomy, Case School of Applied Science, Cleveland, Ohio.
1899,	Dec.	WILSON, EDWIN BIDWELL, B.A., Ph.D. (Yale); Member of the Société Mathématique de France; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Associate Editor of the *Transactions of the American Mathematical Society;* Associate Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass. *16 Lee Street, Cambridge, Mass.*
1900,	Dec.	WILSON, NORMAN RICHARD, M.A., Ph.D. (Chicago); Assistant Professor of Mathematics, Wesley College, University of Manitoba, Winnipeg, Canada. *Portage Avenue.*
1903,	Oct.	WILSON, ROBERT EDWARD, B.Ph., M.A.; Member of the Deutsche Mathematiker-Vereinigung; Instructor in Mathematics, Northwestern University, Evanston, Ill. *1939 Sherman Avenue.*
1906,	Sept.	WITHERS, JOHN WILLIAM, B.Sc., M.A., Ph.D. (Yale); President of Teachers College, St. Louis, Mo.
1899,	Dec.	WOOD, RUTH GOULDING, B.L., Ph.D. (Yale); Instructor in Mathematics, Smith College, Northampton, Mass. *113 Prospect Street.*
1895,	Oct.	WOODS, FREDERICK S., M.A., Ph.D. (Göttingen); Editor of the *Annals of Mathematics;* Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass. *123 Sumner Street, Newton Centre, Mass.*
1891,	May	*WOODWARD, ROBERT SIMPSON, C.E., Ph.D., Sc.D., LL.D.; EX-PRESIDENT; Member of the National Academy of Sciences; Associate Editor of *Science;* President of the Carnegie Institution of Washington. The Carnegie Institution, Washington, D. C.
1891,	May	WORTHEN, THOMAS WILSON DORR, M.A.; Professor of Mathematics, Dartmouth College, Hanover, N. H.
1903,	Dec.	WRIGHT, JOSEPH EDMUND, M.A.; Member of the London Mathematical Society; Fellow of Trinity College, Cambridge, England; Associate Professor of Mathematics, Bryn Mawr College, Bryn Mawr, Pa.
1898,	Oct.	WRIGHT, WALTER CHANNING, Member of the Actuarial Society of America; Consulting Life Insurance Actuary. *45 Milk Street, Room 701,* Boston, Mass.

Date of Admission.

1902, Oct. YANNEY, BENJAMIN FRANKLIN, M.A.; Member of the Circolo Matematico di Palermo; Professor of Mathematics, Mount Union College, Alliance, Ohio.

1903, Dec. YOUNG, ARCHER EVERETT, B.A., Ph.D. (Princeton); Member of the Deutsche Mathematiker-Vereinigung; Instructor in Mathematics, Purdue University, Lafayette, Ind. *1502 Cason Street.*

1891, May YOUNG, JACOB WILLIAM ALBERT, M.A., Ph.D. (Clark); Assistant Professor of the Pedagogy of Mathematics, University of Chicago, Chicago, Ill. *5430 Washington Avenue.*

1902, Feb. YOUNG, JOHN WESLEY, M.A., Ph.D. (Cornell); Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Editor of the *Bulletin of the American Mathematical Society;* Collaborator of the *Bulletin des Sciences Mathématiques;* Assistant Professor of Mathematics, Princeton University, Princeton, N. J. *15 Madison Street.*

1902, Oct. YOUNG, WILLIAM HENRY, M.A., Sc.D.; F.R.S.; Member of the London Mathematical Society; Fellow of the Cambridge Philosophical Society; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; President of the Liverpool Mathematical Society; Lecturer in Higher Analysis, University of Liverpool, Liverpool; Lecturer in Mathematics, Girton College, Cambridge, England. *Wilhelm-Weberstrasse 44A, Göttingen, Germany.*

1893, Mar. YOWELL, EVERETT IRVING, M.Sc., C.E.; Instructor in Mathematics, U. S. Naval Academy, Annapolis, Md.

1891, Apr. ZIWET, ALEXANDER, C.E.; Member of the Deutsche Mathematiker-Vereinigung; Editor of the *Bulletin of the American Mathematical Society;* Professor of Mathematics, University of Michigan, Ann Arbor, Mich. *644 South Ingalls Street.*

Number of members, January 1, 1908	582
Number of members, January 1, 1907	554
Members admitted during the year 1907	44
Members withdrawing during the year 1907	16

CONSTITUTION.

Article I.

This Society shall be called the American Mathematical Society.

Article II.

The object of the Society shall be to encourage and maintain an active interest in mathematical science.

Article III.

The officers of the Society shall be a President, two Vice-Presidents, a Secretary, a Treasurer, a Librarian, and a Committee of Publication to consist of three members who at the same time may hold individually any of the other offices.

Article IV.

The officers of the Society, the ex-Presidents, the Editorial Committee of the Transactions, and twelve other members of the Society shall constitute a Council, which shall have general charge of the affairs of the Society.

Article V.

1. The officers of the Society and four other members of the Council shall be elected by ballot at the Annual Meeting of each year. An official ballot shall be sent to each member at least one month prior to the Annual Meeting, and such ballots, if returned to the Secretary in envelopes bearing the names of the voters, shall be counted at the Annual Meeting. Each such ballot shall contain a name proposed by the Council for each vacancy, with blank spaces in which the voter may substitute other names. A majority of all votes cast in person or by mail shall be necessary to election. In case of failure to secure a majority for any office, the members present at the Annual Meeting shall choose by ballot between the two having the highest number of votes. The members of the Editorial Committee of the Transactions shall be appointed by the Council.

2. The ex-Presidents of the Society shall be permanent members of the Council; the term of office otherwise shall be two years for the President, one year for other officers, and three years for other members of the Council, and until their successors shall be elected. For election as President shall be eligible those members of the Society who have served in the office of Vice-President and who are not holding office as President or Vice-President; and for

election as Vice-President shall be eligible those members of the Society not holding office as President or Vice-President. No elected member of the Council, having completed a term of three years, shall be reëlected until at least one year shall have intervened.

3. If the President of the Society die or resign before the expiration of his term of office, the Council may designate one of the Vice-Presidents to serve as Acting President until the next Annual Meeting, when a President shall be elected by the Society. Such vacancies as may exist at any time among the other offices may be filled by the Council. If any elected member of the Council die or resign more than one year before the expiration of his term, the vacancy for the unexpired term shall be filled by the Society at the next Annual Meeting.

Article VI.

This Constitution shall not be amended unless notice of the proposed amendment be sent by mail to every member of the Society at least four weeks in advance of the meeting at which such amendment is to be considered; and such amendment in order to be adopted must receive two-thirds of the votes cast in person and by mail.

BY-LAWS.

I.

The election of new members of the Society shall be by vote of the Council. Application for admission shall be made by the applicant personally, on blanks provided by the Secretary, and shall be endorsed by two members of the Society. Such applications, being received at any meeting of the Council, shall be laid over for action at any subsequent meeting.

II.

1. Persons elected by the Council, as provided in By-Law I, shall be admitted to membership in the Society upon the payment, within sixty days of the date of their election, of an initiation fee of five dollars.

2. The annual dues shall be five dollars, payable on the 1st of January. Each new member shall pay in proportion to the unexpired fraction of the year at the time of his election. Should the annual dues of any member remain unpaid beyond a reasonable time, the Council shall remove his name from the list of members, after due notice.

3. On the payment of fifty dollars in one sum, any member of at least four years standing and not in arrears of dues may become a life member and shall thereafter be exempt from all annual dues.

III.

The times and places of meetings of the Society shall be designated by the Council, but the Annual Meeting shall be held on a date between the 26th and 31st of December, inclusive; and Regular Meetings shall be held on the last Saturday of February, April, and October, unless otherwise ordered by the Council. Notice of the time and place of each meeting shall be sent by the Secretary to all members of the Society.

IV.

Whenever it shall appear to the Council that a sufficient number of members of the Society are desirous of conducting in any locality periodic meetings for the reading and discussion of mathematical papers, the Council may authorize the formation of a Section to be composed at each Sectional meeting of such members of the Society as may be present; and the Council shall have the right to withdraw such authorization.

V.

Papers intended for presentation at any meeting or sectional meeting of the Society shall be passed upon in advance of the meeting by a programme committee appointed by or under the authority of the Council; and only such papers shall be presented as shall have been approved by such committee. Papers in form unsuitable for publication, if accepted for presentation, shall be referred to on the programme as preliminary communications or reports.

VI.

1. The order of business at the meetings of the Society shall be as follows:

1. Reading of the minutes.
2. Recommendations and reports.
3. Elections.
4. Miscellaneous business.
5. Presentation and discussion of papers previously approved by the programme committee.

2. No question relative to administration shall be considered at any meeting except the Annual Meeting without the recommendation of the Council.

VII.

It shall be the duty of each President to deliver an address before the Society at the Annual Meeting at which his term of office expires.

VIII.

1. The President may convoke the Council whenever the affairs of the Society require it.

2. A request in writing from two members of the Council shall render the convocation obligatory.

IX.

1. The Society shall publish a periodical of critical and historical nature, called the BULLETIN OF THE AMERICAN MATHEMATICAL SOCIETY.

2. The BULLETIN shall be in charge of the Committee of Publication, which may associate with itself other members of the Society whose editorial assistance it may require.

X.

1. The Society shall publish a periodical which shall have for its object to make known, as widely as possible, the more important researches presented at the meetings of the Society. This periodical shall be called the TRANSACTIONS OF THE AMERICAN MATHEMATICAL SOCIETY.

2. The editorial management of the TRANSACTIONS shall be entrusted to a committee of three editors, to be appointed by the Council. The three members of the committee appointed in 1899 shall serve respectively until 1902, 1903, and 1904. In and after 1902, annually at the February meeting, the Council shall appoint one member to serve for three years. Members of the committee shall be eligible to reappointment. Vacancies in the committee shall be filled by the Council.

3. The editorial committee shall have power to elect one of its members as editor-in-chief; but if at any time the committee shall report to the Council that it has been unable to agree upon an editor-in-chief, the Council shall designate one of the members of the committee to act as editor-in-chief. The committee shall have power to associate with itself other members of the Society whose editorial assistance it may require.

4. The TRANSACTIONS shall not be distributed free to the members of the Society; but members of the Society shall have the right to subscribe to the TRANSACTIONS at three-fourths of the advertised price.

XI.

No by-law shall be enacted, amended or suspended, except by a two-thirds vote of the members present at a meeting of the Society, and upon the recommendation of the Council.

ANNUAL REPORTS.

REPORT OF THE TREASURER FOR THE YEAR 1907.

Receipts.

Balance from 1906	$ 5,195.80
Annual dues for 1904	5.00
Annual dues for 1905	130.00
Annual dues for 1906	255.00
Annual dues for 1907	1,885.00
Annual dues for 1908	15.00
Dues from new members for parts of the year 1904	0.84
Dues from new members for parts of the year 1906	4.99
Dues from new members for parts of the year 1907	82.66
Initiation fees for 1904	5.00
Initiation fees for 1905	5.00
Initiation fees for 1906	10.00
Initiation fees for 1907	145.00
Life membership fees	150.00
Sale of reprints	126.15
Royalty on Chicago Congress Papers	9.00
Sale of Boston Colloquium Lectures	73.07
Sale of Bulletin by the Secretary	24.80
Sale of Bulletin by The Macmillan Company	472.70
Contributions in support of the Transactions:	
Columbia University	50.00
Cornell University	50.00
Cornell University (for 1908)	50.00
Haverford College	50.00
Northwestern University	50.00
Stanford University	50.00
University of California (for 1906)	75.00
University of Chicago	50.00
University of Illinois	50.00
University of Missouri	50.00
Wesleyan University (for 1906)	75.00
Wesleyan University	50.00
Yale University	50.00
Sale of Transactions by the Treasurer	296.35
Sale of Transactions by The Macmillan Company	580.00
Sale of Transactions by the Secretary	78.06
Interest on investment and deposits:	
Chi., R. I., and Pac. Refdg. bonds	40.00
Fifth Avenue Trust Company	71.77
Union Square Savings Bank	100.84
Cancelled pages in Bulletin	10.00
Advertisements in Bulletin	124.80
Exchange	.25
	$10,597.08

DISBURSEMENTS.

Expenses of the Secretary's Office		$ 709.29
Expenses of the Treasurer's Office		83.52
Expenses of the Library		110.49
Expenses of the Committee of Publication		82.93
Expenses of the Editorial Committee of TRANSACTIONS		151.09
Publication of BULLETIN (ten numbers)		1,433.71
Publication of TRANSACTIONS (four numbers)		1,640.82
Annual Register		174.05
Expenses of the Chicago Section		70.80
Expenses of the San Francisco Section		14.35
Insurance		4.80
Interest advanced on investments		37.22
Exchange		2.19
		$ 4,515.26
Investments (par value, $4,000)	$3,759.50	
Balance in First National Bank (Ithaca)	676.90	
Balance in Fifth Avenue Trust Company	244.52	
Balance in Union Square Savings Bank	1,400.90	
		$ 6,081.82
		$10,597.08

The Life Membership Fund now amounts to $2,969.40

J. H. TANNER,
Treasurer.

ITHACA, N. Y., December 20, 1907.

REPORT OF THE AUDITING COMMITTEE.

The undersigned Auditing Committee, appointed by the American Mathematical Society, have this day examined the accounts of the Treasurer and find the following to be correct:

Balance from December 14, 1906		$ 5,195.80
Cash receipts since December 14, 1906		5,401.28
		$10,597.08
Balance in First National Bank (Ithaca)	$ 676.90	
Balance in Fifth Avenue Trust Co	244.52	
Balance in Union Square Savings Bank	1,400.90	
Investments (par value $4,000)	3,759.50	
Disbursments since December 14, 1906	4,515.26	
		$10,597.08

W. P. DURFEE,
JAMES MCMAHON,
Auditing Committee.

ITHACA, N. Y., December 20, 1907.

LIBRARY RULES.

1. Applications for books may be made in person, or by letter addressed to the AMERICAN MATHEMATICAL SOCIETY, 501 West 116th Street, New York. Members may, if they desire, apply in person directly to the superintendent of the loaning department of the Columbia University Library, where the Society's library is deposited. Books will be delivered directly to those applying in person, and will be sent to other applicants by express at the expense of the borrowers.

2. A book may be kept four weeks from the date of leaving the library, but the loan may be renewed from time to time by writing to the Society in advance of the day when the book is due.

3. Borrowers should return the books in person or by prepaid express.

CATALOGUE OF THE LIBRARY.

I. JOURNALS.

In case the Society has already any bound volumes, these are indicated in the list. Where no bound volumes are indicated, the journal has recently been placed upon the exchange list, and only the current unbound numbers are in the library. The journals are listed alphabetically according to the places of publication.

ACIREALE.

Accademia di Scienze, Lettere, e Arti, Rendiconti e Memorie, 1901–1904.

AMSTERDAM.

Nieuw Archief voor Wiskunde, Ser. 1, Vols. 1–20; Ser. 2, Vols. 1–7 (1875–1906).

Revue semestrielle des Publications mathématiques, Vols. 1–15 (1893–1907). Tables des Matières, 1892–1902.

Wiskundige Opgaven met de Oplossingen, Vols. 1–8 (1882–1902).

BALTIMORE.

American Journal of Mathematics, Vols. 1–29 (1878–1907); Index, Vols. 11–20.

BERLIN.

Akademie der Wissenschaften, Abhandlungen (selected mathematical memoirs), 1892–94, 1897, 1901, 1903, 1904, 1906; *Monatsberichte,* 1857–1881, *Sitzungsberichte,* 1882–1906. Indexes, 1836–1858, 1859–1873, 1874–1881.

Jahrbuch über die Fortschritte der Mathematik, Vols. 15–35 (1883–1904).

Journal für die reine und angewandte Mathematik, Vols. 96, 97, 109, 125–132 (1884–1907).

Sitzungsberichte der Berliner mathematischen Gesellschaft, Vols. 1–4 (1901–1905).

Unterrichtsblätter für Mathematik und Naturwissenschaften, Vols. 9–13 (1903–1907).

Veröffentlichungen d. K. Preus. Geodätischen Instituts, Vols. 1–2, 11, 19.

BOLOGNA.

Il Bolletino di Matematica, Vols. 1–5 (1902–1906).

R. Accademia delle Scienze, Memorie, Ser. 5, Vols. 8–10; Ser. 6, Vol. 1–3 (1899–1906); *Rendiconti, New Series*, Vols. 4–10 (1899–1906).

BORDEAUX.

Société des Sciences de Bordeaux, Memoires, Ser. 4, Vols. 1–5; Ser. 5, Vols. 1–5; Ser. 6, Vols. 1–3 (1893–1903); *Procès-verbaux*, 1894–1906; General Index, 1850–1900; Cinquantenaire, 1906.

BOSTON.

American Academy of Arts and Sciences, Proceedings, Vols. 26–42 (1890–1907); *Memoirs*, Vol. 12 (1902).

Technology Quarterly, Vols. 4–19 (1891–1906).

BRAY-SUR-SEINE.

Journal des Géométres-Experts, Vols. 1–3, 9–14 (1893–1906).

BRESLAU.

Jahresbericht der schlesichen Gesellschaft für vaterländische Cultur, Vols. 80–82 (1903–1905).

BRISBANE, QUEENSLAND.

Proceedings of the Royal Society, Vols. 15–19 (1900–1906).

BRUSSELS.

Annales de la Société scientifique, Vols. 26–30 (1902–1906); Index, 1875–1901.

Annuaire astronomique de l'Observatoire Belgique, 1906–1907.

Académie Royale, Annuaire, Vols. 68–73 (1902–1907); *Bulletin de la Classe des Sciences*, 1902–1906; *Mémoires de la Classe des Sciences*, Vol. 1 (1904); *Mémoires couronnés et autre Mémoires*, Vols. 60–66 (1900–1904); *Mémoires couronnés et Mémoires des Savants étrangers*, Vols. 58–62 (1899–1904).

BUCHAREST.

Gazeta Matematica, Vols. 1–12 (1895–1907).

BUDAPEST.

See LEIPZIG.

BUENOS AIRES.

Anales de la Sociedad Cientifica Argentina, Vols. 55–62 (1903–1906).

CAMBRIDGE, ENG.

Cambridge Philosophical Society, Proceedings, Vols. 10–13 (1899–1906); *Transactions*, Vols. 17–19 (1899–1904).

CAMBRIDGE, MASS.

Annals of Mathematics, Ser. 1, Vols. 1–12; Ser. 2, Vols. 1–8 (1884–1907).

CHERBOURG.

Mémoires de la Société Nationale des Sciences naturelles et mathématiques de Cherbourg, Vols. 31–32, 34–35 (1897–1906).

CHICAGO.

The Astrophysical Journal, Vols. 1–25 (1895–1907).

The Monist, Vols. 1–7, 9–17 (1890–1907).
The Open Court, Vols. 11–21 (1897–1907).
School Science and Mathematics, Vols. 3–7 (1903–1907).
School Mathematics, Vol. 1 (1904).

CHRISTIANIA.
Archiv for Mathematik og Naturvidenskab, Vols. 21–26 (1899-1904).
Videnskabs-Selskabet i Christiania, Forhandlinger, 1898–1899, 1901–1906; *Skrifter*, 1898–1906; *Oversigt*, 1898–1900.

CITTÀ DI CASTELLO.
Le Matematiche pure ed applicate, Vols. 1–2 (1901–1903).

COIMBRA.
Jornal de Sciencias mathematicas e astronomicas, Vols. 9–15 (last) (1889–1905).
Annaes Scientificos da Academia Polytechnica, Vol. 1 (1906).

COPENHAGEN.
Kgl. Danske Videnskabernes Selskab, Forhandlinger, Oversigt, 1900–1906; *Skrifter* (See BOOKS OTHER THAN JOURNALS, under COPENHAGEN).
Nyt Tidsskrift for Matematik, Ser. A, Vols. 11–18 (1900–1907); Ser. B, Vols. 11–18 (1900–1907).

CRACOW.
Bulletin International de l'Académie des Sciences de Cracovie, 1900–1906.
Katalog Literatury Naukowej Polskiej, Vols. 2–6 (1902–1906).

DES MOINES.
The Analyst, Vols. 1–10 (1874–1883) (complete).

DUBLIN.
Royal Dublin Society, Scientific Proceedings, New Ser., Vols. 1–10 (1878–1902); *Scientific Transactions*, Ser. 2, Vols. 1–8 (1877–1903); Index to *Proceedings and Transactions*, 1877–1898.

EDINBURGH.
Annals of the Royal Observatory, Vol. 1 (1902).
Proceedings of the Mathematical Society of Edinburgh, Vols. 1, 11–25 (1883–1907); Index, Vols. 1–20.
Royal Society of Edinburgh, Proceedings, Vols. 3–4, 10–12, 15–27 (1850–1907); *Transactions*, Vols. 37–43 (1891–1905).

ERLANGEN.
Sitzungsberichte der physikalisch-medicinischen Societät zu Erlangen, Vols. 25–38 (1893–1906).

FORT MONROE.
Journal of the United States Artillery, Vols. 1–27 (1892–1907).

GHENT.
Mathesis, Ser. 1, Vols. 7–10; Ser. 2, Vols. 1–10; Ser. 3, Vols. 1–6 (1887–1906).

GLASGOW.
Proceedings of the Glasgow Philosophical Society, Vol. 30 (1898–1899).

GÖTTINGEN.
Gesellschaft der Wissenschaften, Nachrichten math.-phys. Klasse, 1892–1905; *Geschäftliche Mittheilungen*, 1894–1905.

GRENOBLE.
Annales de la Faculté des Sciences de l'Université de Grenoble, Vols. 13–18 (1901–1906).

HALIFAX.

Proceedings and Transactions of the Nova Scotian Institute of Sciences, Ser. 2, Vols. 1–2, 4 (1890–1904).

HAMBURG. See LEIPZIG.

ITHACA.

Bulletin of the American Physical Society, Vols. 1–2, Vol. 3, No. 1 (last) (1899–1902).

Journal of Physical Chemistry, Vols. 1–10 (1896–1906).

KASAN.

Bulletin de la Société physico-mathématique de Kasan, Vols. 1–5, 7–13 (1891–1903).

KHARKOF.

Communications of the Mathematical Society of Kharkof, Ser. 2, Vols. 5–7, 9 (1897–1906).

KIEFF.

University Isvistija, Vols. 43–46 (1903–1906).

LAWRENCE.

Kansas University Quarterly, Ser. A, Vols. 9–10 (1900–1901).

Kansas University Science Bulletin, Vols. 1–3 (1902–1906).

LEGHORN.

Periodico di Matematica, Ser. 1, Vols. 2–11; Ser. 2, Vols. 12–18; Ser. 3, Vols. 19–22 (1888–1907).

Supplemento al Periodico di Matematica, Vols. 2–10 (1898–1907).

LEIPZIG.

Archiv der Mathematik und Physik, Ser. 3, Vols. 1–11 (1901–1907).

Bibliotheca Mathematica, 1887–1907.

Jahresbericht der Deutschen Mathematiker-Vereinigung, Vols. 1–9; New Ser., Vols. 11–16 (2 sets, except Vols. 1–4) (1890–1907).

Mathematische Annalen, Vols. 41–43, 45–64 (1893–1907).

Mathematische und naturwissenschaftliche Berichte aus Ungarn, Vols. 1–20, 23 (1882–1907).

Mittheilungen der mathematischen Gesellschaft in Hamburg, Vols. 2–3 (1890–1900).

Sächsische Gesellschaft der Wissenschaften, math.-phys. Classe; Abhandlungen, Vols. 25–29 (1899–1906); *Berichte*, Vols. 45–58 (1893–1907).

Zeitschrift für Mathematik und Physik, Vols. 44–54 (1899–1907).

Zeitschrift für mathematischen und naturwissenschaftlichen Unterricht, Vols. 23–29 (1892–1898).

LEMBERG.

Chronik der Ukrainischen Sevcenko-Gesellschaft der Wissenschaften, 1904–1906.

Sammelschrift der mathematisch-naturwissenschaftlichen Section der Sevcenko-Gesellschaft der Wissenschaften, Vols. 9–11 (1903–1907).

LICK OBSERVATORY, MT. HAMILTON.

Lick Observatory Contributions, Vols 3–5 (1893–1895); *Publications*, Vols. 1–6 (1887–1903).

LIÉGE.

Mémoires de la Société Royale des Sciences de Liége, Ser. 2, Vols. 19–20; Ser. 3, Vols. 1–6 (1897–1906).

LIMA.

Revista de Ciencias, Vols. 1–9 (1898–1906).

LIVORNO. See LEGHORN.

LONDON.

Educational Times, 1897–1907.

Journal of the Institute of Actuaries, Vols. 35–41 (1901–1907).

Proceedings of the London Mathematical Society, Vols. 1–35 (1865–1903); Ser. 2, Vols. 1–4 (1903–1906); Index, Vols. 1–30. *List of Members*, 1865–1899.

Mathematical Gazette, Vols. 1–3 (1896–1906).

Messenger of Mathematics, Vols. 6–7, 24–36 (1894–1907).

Quarterly Journal of Pure and Applied Mathematics, Vols. 31–38 (1899–1907).

Royal Society, Philosophical Transactions, Ser. A. Vols. 192–205 (1899–1906); *Proceedings*, Vols. 62–79 (1898–1907); *Year Book*, Vols. 1–2 (1896–1898).

LUXEMBURG.

Institut Grand-Ducal, Publications (Section des Sciences naturelles et mathématiques), Vols. 8–9, 15, 17–21, 23–27 (1865–1904).

MADRID.

Archivo de matematicas, 1896–1897 (last).

Real Academia de Ciencias, Memorias, Vols. 14, 20, 22–25 (1890, 1903–1907); *Rivista*, Vols. 1–5 (1904–1907).

MANCHESTER.

Memoirs and Proceedings of the Manchester Literary Society, Vols. 37–51 (1892–1907).

MARSEILLES.

Annales de la Faculté des Sciences de Marseilles, Vols. 11–13, 15 (1901–1905).

MEXICO.

Memorias y Rivista de la Sociedad Cientifica Antonio Alzate, Vols. 2–24 (1888–1907).

MILAN.

Annali di Matematica pura ed applicata, Ser. 3, Vols. 2–13 (1899–1907); General Index, 1850–1897.

Reale Istituto Lombardo di Scienze e Lettere, Rendiconti, Ser. 2, Vols. 33–39 (1900–1907); *Memorie*, Vol. 19 (1900).

MODENA.

Regia Accademia di Scienze, Lettere, ed Arti, Memorie, Ser. 3, Vols. 1–6 (1898–1906).

MONTPELLIER.

Mémoires de l'Académie des Sciences de Montpellier, Ser. 2, Vols. 1–2 (1893–1900).

MOSCOW.

Transactions of the Mathematical Society of Moscow, Vols. 1–25 (1866–1906); Index, Vols. 1–15.

University of Moscow, Physico-Mathematical Gazette, Vols. 1, 4–11, 13–23 (1880–1907).

MUNICH.

Hochschul-Nachrichten, Vol. 13 (1902–1903).

NAPLES.

Accademia delle Scienze fisiche e matematiche di Napoli, Atti, Ser. 2, Vols. 8–12 (1899–1905); *Rendiconti*, Vols. 34–45 (1895–1906); Indice Generale dei Lavori, 1737–1903.

NEW YORK.

American Mathematical Society, Bulletin, Vols. 1–13 (1894–1907); General Index, 1891–1904; *Transactions,* Vols. 1–7 (1900–1906) (2 sets), Index, Vols. 1–5; *Annual Register,* 1891–1905.

Actuarial Society of America, Papers and Transactions, Vols. 1–9 (1889–1906).

American Society of Civil Engineers, Transactions, Vols. 55–57 (1905–1906); *Proceedings,* Vols. 32–33 (1906–1907).

Association of Teachers of Mathematics in the Middle States and Maryland, Bulletin, Vols. 1–3 (1904–1906).

New York Mathematical Society, Bulletin, Vols. 1–3 (1891–1894) (2 sets).

Physical Review, Vols. 16–25 (1903–1907).

Science, New Ser., Vols. 1–26 (1895–1907).

NORTHFIELD.

Astronomy and Astrophysics, 1892–94.

Popular Astronomy, Vols. 10–15 (1902–1907).

ODESSA.

Viestnik Opytnoy Fisiki, Vols. 24–25.

Society of Naturalists of New Russia, Mathematical Section, Zapiski, Vol. 20, 25–29 (1903–1906).

PALERMO.

Atti dell' Accademia di Scienze, Lettere e belle Arti di Palermo, Ser. 3, Vols. 1–6 (1891–1901).

Il Pitagora, Vols. 2–13 (1896–1907).

Rendiconti del Circolo matematico di Palermo, Vols. 1–23 (1884–1907); *Annuario,* 1898, 1900, 1904–1906.

PARIS.

Bulletin des Sciences mathématiques et physiques élémentaires, Vols. 1–10 (1895–1904).

Bulletin de la Société mathématique de France, Vols. 1–35 (1872–1907).

Bulletin de la Société philomathique de Paris, New Ser., Vols. 1–8 (1898–1906).

Bulletin des Sciences mathématiques, Vols. 27–30 (1903–1906).

Bureau des Longitudes, Annuaire, 1903–1906, 1908.

Comptes rendus de l'Académie des Sciences de Paris, Vols. 136–143 (1903–1906).

Journal de Mathématiques pures et appliquées, Ser. 5, Vols. 1–6, 8–10 (1895–1904), Ser. 6, Vols. 1–3 (1905–1907).

L'Education mathématique, Vols. 5–9 (1902–1907).

L'Enseignement mathématique, Vols. 4–9 (1902–1907).

L'Intermédiare des Mathématiciens, Vols. 1–13 (1894–1906).

Nouvelles Annales de Mathématiques, Ser. 1, Vols. 1–20 (1842–1861); Ser. 2, Vols. 1–11 (1862–1872), 13–18 (1874–1879); Ser. 4, Vols. 3–6 (1903–1906).

Revue de l'Institut catholique, Vols. 7–11 (1902–1906).

Revue générale des Sciences, Vols. 13–18 (1902–1907).

Revue de Mathématiques spéciales, Vols. 13–16 (1902–1906).

PAVIA.

Rivista di Fisica, Matematica e Scienze Naturali, Vols. 7–13, 15 (1903–1907).

PHILADELPHIA.

American Philosophical Society, Proceedings, Vols. 29–45 (1891–1906); *Transactions,* Vol. 20 (1902); List of Surviving Members, 1892.

University of Pennsylvania, Publications, Mathematics, Nos. 1–3 (1897–1905).

PISA.

Annali della Scuola normale superiore, Vols. 1–9 (1871–1904).

PRAGUE.

Casopis pro pèstováni mathematiky a fysiky (Journal of Mathematics and physics), Vols. 21, 23–25, 27–36 (1892–1907); Index, Vols. 1–30.

Jednota českých Mathematikú Sbornik, Vols. 1–9. (See BOOKS OTHER THAN JOURNALS, under PRAGUE.

Ceská Akademie Césare Františka Josefa pro Vědy, Slovesnost, a Umění (Francis Joseph Bohemian Academy of Sciences, Literature and Art), Rospravy. (The memoirs relating to mathematics only.) Vols. 1–15 (1891–1906).

Královské Ceské Společnosti Náuk, Věstník (Royal Bohemian Academy of Sciences, Proceedings) 1899–1902, 1905–1906; *Bulletin Internationale,* Vols. 7–11 (1902–1906); *Jahresberichte,* 1905–1906; General Index of all Publications, 1884–1904.

RALEIGH.

Journal of the Elisha Mitchell Scientific Society, Vols. 9–12 (1892–1895).

RENNES.

Travaux scientifiques de l'Université, Vols. 1–5 (1902–1906).

ROME.

Accademia dei Lincei, Memorie, Vol. 4; *Rendiconti,* Ser. 5, Vols. 1–7, 9–16 (1892–1907).

Bulletino di Bibliografia e di Storia delle Scienze matematiche e fisiche, Vols. 1–20 (1868–1887) (Complete).

Pontificia Accademia dei Nuovi Lincei, Atti, Vols. 48–58 (1894–1905); *Memorie,* Vols. 15–18 (1898–1901).

Societa Italiana delle Scienze, Memorie di Matematica e di Fisica, Vols. 12–14 (1904–1907).

Rivista di Artiglieria e Genio, Vols. 1–4, New Ser., Vols. 1–3.

SAN FRANCISCO.

Publications of the Astronomical Society of the Pacific, Vols. 1–18 (1889–1906).

SARAGOSSA.

Revista trimestral de Matematicas, Vols. 1–6 (last) (1901–1906).

SPRINGFIELD, MO.

The American Mathematical Monthly, Vols. 1–14 (1894–1907).

ST. LOUIS.

Transactions of the St. Louis Academy of Sciences, Vols. 5–16 (1886–1906).

STOCKHOLM.

Acta Mathematica, Vols. 1–30 (1882–1905).

Arkiv för Mathematik, Astronomi, och Fysik, Vols. 1–2 (1903–1906).

Kongl. Svenska Vetenskaps-Akademie, Handlingar, Bihang, Part 1, Vols. 12–28 (1887–1902).

ST. PETERSBURG.

Académie des Sciences, Bulletin, Vols. 1, 5–34 (1860–1892), Ser. 5, Vols. 3–24 (1895–1906); *Memoires,* Vols. 15–17 (1904–1906).

STUTTGART.

Mathematisch-naturwissenschaftliche Mitteilungen, Ser. 1, Vols. 1–5 (1884–1892); Ser. 2, Vols. 1–8 (1899–1906).

Zeitschrift für Vermessungswesen, Vols. 31–35 (1902–1906).

TOKYO.

Sugaku-Butsurigaku Kwai Kiji (*Journal of the Physico-Mathematical Society of Tokyo*), Vols. 1–5, 7–8; Ser. 2, Vols. 1–3 (1901–1906).

TOULOUSE.

Faculté des Sciences de l'Université de Toulouse, Annales, Ser. 1, Vols. 3–12; Ser. 2, Vols. 1–8 (1889–1906); *Mémoires*, Ser. 10, Vols. 1–5 (1901–1905).

Bulletin de l'Académie des Sciences de Toulouse, Vol. 3 (1899–1900).

TURIN.

Bolletino di Bibliografia e Storia delle Scienze matematiche, Vols. 1–9 (1898–1906).

Formulaire de Mathématiques, Vols. 1–4 (1895–1902).

Reale Accademia di Scienze di Torino, Atti, Vols. 30–42 (1895–1907); Indexes, Vols. 21–30, 31–40; *Memorie*, Ser. 2, Vols. 48–57 (1899–1907).

Revue de Mathématiques, Vols. 1–8 (1891–1906).

ULM.

Jahresheft des Vereins für Mathematik und Naturwissenschaften, Vols. 9–12 (1899–1906).

UPSALA.

Universitets Arsskrift, 1901–1905.

VIENNA.

Monatshefte für Mathematik und Physik, Vols. 1–18 (1890–1907).

Sitzungsberichte der kaiserlichen Akademie der Wissenschaften in Wien, math.-naturwiss. Classe, Vols. 108–115 (1899–1906).

WARSAW.

Prace matematyczno-fizyczne, Vols. 1–18 (1888–1907).

Tablice matematyczno-fizyczne, 1904.

Travaux de la Société de Naturalists, Imp. Université de Warsaw, Vols. 1–3, 13–15 (1891–1895, 1902–1904).

Wiadomosci matematyczne, Vols. 1–10 (1897–1906).

WASHINGTON.

Publications of the U. S. Naval Observatory, Ser. 2, Vols. 1–5 (1900–1905).

Smithsonian Institution, Reports, 1885–1887, 1889–1890, 1895–1905.

ZURICH.

Vierteljahrschrift der naturforschenden Gesellschaft, Vols. 34–51 (1889–1907); Index, Vols. 41–50.

II. Books other than Journals. Accessions in 1905–1907.

A complete catalogue of books other than journals received prior to 1905 is given in the Annual Register for that year.

Adams, J. L. The milky way, Sydney, 1905.
The infinity of the starry universe, Sydney, 1906.

Adhémar, R. d'. Les équations aux dérivées partielles à caractéristiques réelles (Scientia, No. 29), Paris.

Ahrens, W. Mathematische Unterhaltungen und Spiele, Leipzig, 1901.

Autonne, L. Sur les formes mixtes, Paris, 1905.

Baillard, B. and Bourget, H. Correspondence d'Hermite et de Stieltjes, Vols. 1 and 2, Paris, 1905.

Baker, A. L. The art of geometry, Boston, 1905.

Bardey, E. Algebraische Gleichungen, Leipzig, 1902.

Belfast. Queen's College Calendar, 1905–6, 1906–7.

Bolyai, W. und Gauss, C. F. Briefwechsel, Leipzig, 1899.

Bolza, O. Lectures on the calculus of variations, Chicago, 1904.

Boole, M. E. Preparation of the child for science, Oxford, 1904.

Borel, E. Leçons sur les séries divergentes, Paris, 1901.
Leçons sur les séries à termes positifs, Paris, 1902.
Leçons sur les fonctions entières, Paris, 1900.

Bourget, H. See Baillard, B.

Brioschi, F. Opere matematiche, Vols. 1–3, Milan, 1902–1904.

Bristol. University College Calendar, 1905–6, 1906–7.

Bruns, H. Grundlinien des wissenschaftlichen Rechnens, Leipzig, 1903.

Bryan, G. H. Thermodynamics, Leipzig, 1907.

Bucherer, A. H. Elemente der Vektor-Analysis, Leipzig, 1903.
Mathematische Einführung in die Elektronentheorie, Leipzig, 1904.

Bush, W. N., and Clarke, J. B. Elements of geometry, New York, 1905.

Cain, W. Symbolic algebra, New York, 1884.

Cardiff. Calendar of the University College of South Wales, 1901–1905, 1907.

Chicago. University of Chicago Decennial Publications. (Reprints from Ser. 1, Vols. 8–9, of the papers on mathematics, physics, astronomy and astrophysics.)

Clay, C. M. Examples in algebra, New York, 1905.

Clement-Jones, A. Notes on analytical geometry, Oxford, 1903.

Conant, L. L. Original exercises in plane and solid geometry, New York, 1905.

Copenhagen. *Kgl. Danske Vidensk. Selsk. Skrifter.* (Mathematical parts only, including memoirs by the following authors: Bernoulli, J., Brahe, T., Broager, P. D., Bronsted, J. N., Buchwaldt, F., Cagnoli, Colding, D'Arrest, H. L., Degen, C. F., Gram, J. P., Hansen, P. A., Hansen, P. C. V., Hertzsprung, S., Juel, C., Jurgensen, C., Lande, Lorenz, L., Olufsen, C. F. R., Orsted, H. C., Ramus, C., Schjellerup, H. C. F. C., Schmidten, H. G., Steen, A., Thiele, T. N., Valentiner, H., Wessel, C., Zeuthen, H. G., 1784–1899.)

Couturat, L. L'algèbre de la logique, Paris, 1905.

Cunningham, A. J. C. Binary canon, London, 1900.

CZUBER, E. Wahrscheinlichkeitsrechnung, Parts 1 and 2, Leipzig, 1902.

DISSERTATIONS of members of the AMERICAN MATHEMATICAL SOCIETY.

AMES, L. D. An arithmetic treatment of some problems in analysis situs, Baltimore, 1905.

BOLZA, O. Über die Reduction hyperelliptischer Integrale erster Ordnung und erster Gattung auf elliptische, insbesondere über die Reduction durch eine Transformation vierten Grades, Berlin.

BUSSEY, W. H. Generational relations for the abstract group simply isomorphic with the group LF [2, p^n], London, 1904.

COLPITTS, E. C. On twisted quartic curves, Baltimore, 1907.

CRATHORNE, A. Das räumliche isoperimetrische Problem, Göttingen, 1907.

DICKSON, L. E. The analytic representation of substitutions on a power of a prime number of letters with a discussion of the linear group, Cambridge, 1897.

EPSTEEN, S. Untersuchungen über lineare Differential-gleichungen 4. Ordnung und die zugehörigen Gruppen, Zurich, 1901.

FINDLAY, W. The Sylow subgroups of the symmetric group, New York, 1904.

FINE, H. B. On the singularities of curves of double curvature, Baltimore, 1886.

GILLESPIE, D. C. Anwendungen des Unabhängigkeitssatzes auf die Lösung der Differentialgleichungen der Variationsrechnung, Göttingen, 1906.

GLENN, O. E. Determination of the abstract groups of order p^2qr; p, q, r being distinct primes, New York, 1906.

HASEMAN, C. Anwendung der Theorie der Integralgleichungen auf einige Randwertaufgaben in der Funktionentheorie, Göttingen, 1907.

HASKELL, M. U. Ueber die zu der Curve $\lambda^3\mu + \mu^3\nu + \nu^3\lambda = 0$ im projectiven Sinne gehörende mehrfache Ueberdeckung der Ebene, Baltimore, 1890.

HILL, J. E. On quintic surfaces, Worcester, Mass., 1896.

JACKSON, L. L. The educational significance of sixteenth century arithmetic, New York, 1906.

METZLER, W. H. On the roots of matrices, Baltimore, 1892.

MOORE, C. L. E. Classification of the surfaces of singularities of the quadratic spherical complex, Baltimore, 1905.

MULLEN, L. B. An outline of mathematical economics, Wooster, Ohio, 1898.

NEIKIRK, L. I. Groups of order p^m which contain cyclic subgroups of order p^{m-3}, Philadelphia, 1905.

RAGSDALE, V. On the arrangement of the real branches of plane algebraic curves, Baltimore, 1906.

SLAUGHT, H. E. The cross ratio group of 120 quadratic Cremona transformations of the plane, Baltimore, 1901.

STORY, W. E. On the algebraic relations existing between the polars of a binary quantic, Leipzig, 1875.

TOWNLEY, S. D. The orbit of Psyche, San Francisco, 1905.

TYLER, H. W. Beziehungen zwischen der Sylvester'schen und der Bezout'schen Determinante, Munich, 1891.

WALKER, B. M. On the resolution of higher singularities of algebraic curves into ordinary nodes, Chicago, 1906.

WERNICKE, P. Über die analysis situs mehr-dimensionaler Räume, Göttingen, 1904.

WESTFALL. Zur Theorie der Integralgleichungen, Göttingen, 1905.

YOUNG, J. W. A. On the determination of groups whose order is a power of a prime, Baltimore, 1893.

DOLL, M. and NESTLE, P. Lehrbuch der praktischen Geometrie, Leipzig, 1905.

DUBLIN. Examination papers of the Royal University, 1904.
Calendar of the Royal University, 1905.

DUHEM, P. Recherches sur l'hydrodynamique, Paris, 1904.

ENCYCLOPÄDIE der mathematischen Wissenschaften, Vol. 1, Leipzig, 1904.

ESTANAVE, E. Essai sur la sommation de quelques séries trigonométriques, Paris, 1903.

FASSBINDER, C. Théorie et pratique des approximations numérique, Paris, 1906.

FINE, H. B. College Algebra, Boston, 1905.

FOERING and LAMBERT. Plane and spherical trigonometry, 1905.

FÖPPL, A. Vorlesungen über technische Mechanik, Vol. 1, 3, Leipzig, 1905.

FORSYTH, A. R. Theory of differential equations, Vols. 5 and 6 (Partial differential equations), Cambridge, 1906.

FRANKLAND, F. W. Thoughts on ultimate problems, third edition, London, 1906.

FUKUZAWA, F. Vier mathematische Abhandlungen, Tokio, 1907.

GAUSS, C. F. Werke, Vol. 7, 9, 1903–1906.
See BOLYAI, W.

GOURSAT, E. Cours d'analyse mathématique, Vol. 2, Paris, 1905.

GOURSAT-HEDRICK. Mathematical analysis, Vol. 1, Boston, 1905.

GRANVILLE, W. A. Elements of the differential and integral calculus, Boston, 1904.

GUICHARD, G. Sur les systèmes triplement indeterminés et sur systèmes orthogonaux (Scientia, No. 25), Paris, 1905.

GUNTHER, C. O. Integration by trigonometric and imaginary substitutions, New York, 1907.

HALSTED, G. B. Rational geometry, New York, 1904.

HAMMER, E. Sechstellige Tafel der Werte von $\log \frac{1+x}{1-x}$, Leipzig, 1902.

HAUBER, W. Statik, Vols. 1–2, Leipzig, 1903–1904.

HEDRICK, E. R. See GOURSAT.

HENSEL, K. and LANDSBERG, G. Theorie der algebraischen Funktionen einer Variablen und ihre Anwendungen auf algebraische Kurven und Abelsche Integrale, Leipzig, 1902.

HERMITE, CH., POINCARÉ, H., ROUCHÉ, E. Oeuvres de Laguerre, Vol. 2, Paris, 1905.
See PICARD.

HILL, G. W. Collected mathematical works, Vols. 1–4, Baltimore, 1905–1907.

HOCHHEIM, A. Analytische Geometrie der Ebene, Vol. 1, Leipzig, 1904.

HOLZMÜLLER, G. Ingenieur-Mathematik, Das Potential, Leipzig, 1898.

HOSKINS, L. M. Theoretical mechanics, Stanford University, 1903.

HUBBELL, H. The geometry of Euclid, 1861.

HUDSON, R. W. H. T. Kummer's quartic surface.

ISSALY, L'ABBE. Principes fondamentaux de la théorie des pseudo-surfaces, Paris, 1902.

JOHNSON, W. W. The theory of errors and method of least squares, New York, 1892.

A treatise on ordinary and partial differential equations, New York, 1896.

Theoretical mechanics, New York, 1901.

Elementary treatise on the differential calculus, New York, 1904.

JOUFFRET, E. Melanges de géométrie á quatre dimensions, Paris, 1906.

KIEPERT, L.,—STEGEMAN, M. Grundriss der Differential- und Integral-Rechnung, Hanover, 1900–1901.

KRAZER, A. Verhandlungen des III Internationalen Mathematiker-Congresses in Heidelberg, 1904. Leipzig, 1905.

KÜBLER, B. J. Woher kommen die Weltgesetze?

LAMBERT. See FOERING.

LANDSBERG, G. See HENSEL.

LARMOR, J. Aether and matter, Cambridge, 1900.

LAURENT, H. Sur le principes fondamentaux de la théorie des nombres.

LECHALAS, G. Introduction à la géométrie générale, Paris, 1904.

LEVAVASSEUR, R. Groupes d'ordres finis et groupes finis continus, Lyons, 1904.

LINDELÖF, E. Calcul des résidus, Paris, 1904.

LYMAN, E. A. Advanced arithmetic, New York, 1905.

MCAULAY, A. Utility of quaternions in physics, London, 1893.

MCCORMACK, T. J. See MACH, E.

MCMURRY, C. A. Special method in arithmetic, New York, 1905.

MACH, E. Space and geometry (English translation by MCCORMACK, T. J.), Chicago, 1906.

MARCOLONGO, R. Teoria matematica dello equilibrio dei corpi elastici, Milan, 1904.

MILNE, W. J. Progressive arithmetic, Books I., II., III., New York, 1906.

MOORE, J. H., and MINER, G. W. Practical business arithmetic, Boston, 1906.

MOORS, B. P. Les systéms des poids, mesures, et monnaies des Israélites, Paris, 1904.

MURHARD, W. A. Litteratur der mathematischen Wissenschaften, Vols. 1–5, Leipzig, 1797–1805.

MURRAY, D. A. Practical mathematics, New York, 1905.

NESTLE, P. See DOLL, M.

OSGOOD, W. F. Collected papers, Vols. I, II.

Lehrbuch der Funktionentheorie, Vol. 1, Leipzig, 1906.

OSTENFELD, A. Technische Statik (German translation by SKOUGE, D.), Leipzig, 1904.

PASCAL, E. Lezioni di calculo infinitesimale, Part I, integrale; Part II, differenziale, Milan, 1902–1903.

PETRONIEVICS, B. Principien der Metaphysik, Vol. 1, Heidelberg, 1904.

PHILADELPHIA. Franklin bicentennial celebration, 1906.

PICARD, E. Oeuvres de Charles Hermite, Vol. 1, Paris, 1905.
Sur le developpement de l'analyse, Paris, 1905.
Traité d'analyse, Paris, 1896.

POINCARÉ, H. Electricité et optique, la lumière et les théories électrodynamiques, 1901.
Théorie de Maxwell—La telegraphie sans fil (Scientia, No. 23), Paris, 1904.
See HERMITE, CH.

PRAGUE. *Jednota českých mathematiku Sbornik.*
Vol. 1. WEYR, E. Projectivná geometrie, 1898.
Vol. 2. KOLÁČEK, F. Hydrodynamika, 1899.
Vol. 3. STUDNIČKA, F. J. Úvod do nauky o determinantech, 1900.
Vol. 4. STROUHAL, C. Mechanika, 1901.
Vol. 5. WEYR, E. Počet differenciálný, 1902.
Vol. 6. STROUHAL, C. Akustika, 1903.
Vol. 7. STUDNICKA, F. J. Analytické geometrie, V rovině, 1903.
Vol. 8. KOLOUŠEK, J. Mathematická theorie důchodů jistých a pujček annuitních, 1904.
Vol. 9. KOLÁČEK, F. Electřina a magnetismus, 1905.

RADFORD, E. M. Mathematical problem papers, Cambridge, 1904.

RIEMANN, B.—STAHL, H. Elliptische Funktionen, Leipzig, 1899.

ROBBINS, E. R. Plane geometry, New York, 1906.

ROUCHÉ, E. See HERMITE, CH.

SCHILLING, F. Ueber die Anwendungen der darstellenden Geometrie, Leipzig, 1904.

SCHMALL, C. N., and SHACK, S. M. Plane geometry, New York, 1904.

SCHÖNFELD, G. A. Die Kromme van den vierden Graad in de vierdimensionale Ruimte, Groningen, 1904.

SHACK, S. M. See SCHMALL, C. N.

SHAW, J. B. Synopsis of linear associative algebra, Washington, 1907.

SHEARMAN, A. T. The development of symbolic logic, London, 1906.

SKOUGE, D. See OSTENFELD, A.

SMITH, D. E. Fortfolio of portraits of eminent mathematicians, Parts 1–2, Chicago, 1905.

SOHNCKE, L. A. Bibliotheca mathematica, Verzeichniss der Bücher über die gesammten Zweige der Mathematik, Leipzig, 1854.

SOLVERT, M. Mémoires sur une classe de fonctions elliptiques, Brussels, 1903.

SOMERVILLE, F. H. First year in algebra, New York, 1905.

STAHL, H. See RIEMANN, B.

STARKE, H. Experimentelle Elektrizitätslehre, Leipzig, 1904.

STEGEMANN, M. See KIEPERT, L.

STEPHAN, P. Die technische Mechanik, Vol. 1, (starre Körper), Leipzig, 1904.

STOFFAES, L'ABBE. Cours de mathématiques supérieures, Paris, 1904.

STRINGHAM, I. Uniplanar algebra, San Francisco, 1893.

SIDNEY. Calendar of the University, 1905–1907.

VAN VLECK, E. B., WHITE, H. S., WOODS, F. S. The Boston Colloquium Lectures on Mathematics, New York, 1905.

WANGERIN, A. Verhandlungen der Breslauer Naturforscher-Versammlung, Leipzig, 1905.

WENTWORTH, G. A. Elementary arithmetic, Boston, 1906.

WHITE, H. S. See VAN VLECK, E. B.

WILCZYNSKI, E. J. Projective differential geometry of curves and ruled surfaces, Leipzig, 1906.

WILLIOT, V. Etudes sur les nombres premiers, part 1, Paris, 1903.

WILSON, J. C. On the traversing of geometrical figures, Oxford, 1905.

WOODS, F. S. See VAN VLECK, E. B.

P
Mat
A

100963

American Mathematical Society
List of officers and members...
1905-1908

DATE | NAME OF BORROWER.

University of Toronto
Library

DO NOT
REMOVE
THE
CARD
FROM
THIS
POCKET

STORAGE

Acme Library Card Pocket
LOWE-MARTIN CO. LIMITED